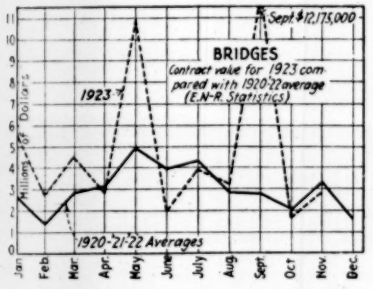
CONSTRUCTION NEWS

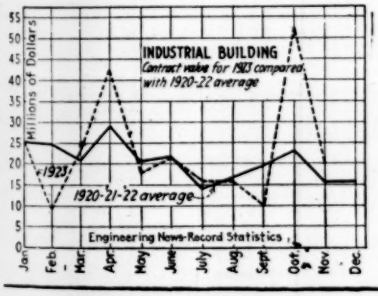
Engineering News-Record, December 13, 1923

The Construction Barometer

Estimated Value of 1923 Contracts Exceeds Five Billion

THE total value of contracts awarded on large engineering construction projects in the United States, as published in *Engineering News-Record*, reached $1,807,040,000 for the eleven months of 1923. Contracts for the first week in December amounted to $31,102,000. An estimated total for December, 1923, would therefore exceed $124,000,000. The estimated yearly total will probably reach $1,931,448,000 for large projects above the *E. N.-R.* minimum in each class of construction. All construction, exclusive of residential, will probably exceed $3,862,000,000. Residential building alone amounted to $1,587,785,400, according to F. W. Dodge figures for the eleven months of the current year. An estimated total of residential construction would therefore amount to over $1,700,000,000 for the year 1923. This amount, added to the $3,862,000,000 non-residential construction, would make a grand total of about $5,600,000,000 for all classes of construction for the entire year, or an increase of about 25 per cent above the total for 1922.





Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Nov. 22	$10,461,000	$9,259,000	$19,720,000
Nov. 29	10,298,000	25,020,000	35,318,000
Dec. 6	9,806,000	20,846,000	30,652,000
3 Weeks	$30,565,000	$55,125,000	$85,690,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

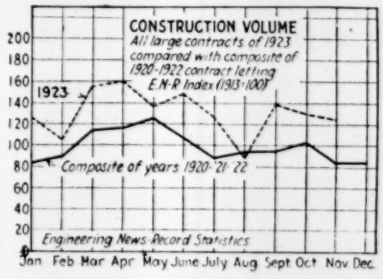
Week Ended	No.	Public Work	No.	Private Work
Nov. 22	10	$2,841,000	21	$5,830,000
Nov. 29	10	2,165,000	30	12,810,000
Dec. 6	20	5,034,000	49	14,770,000
3 Weeks	40	$10,040,000	100	$33,410,000

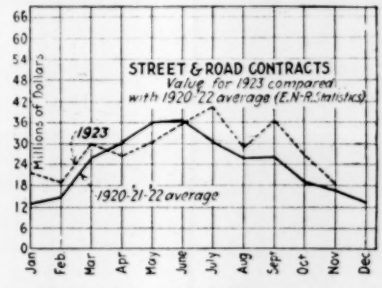
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

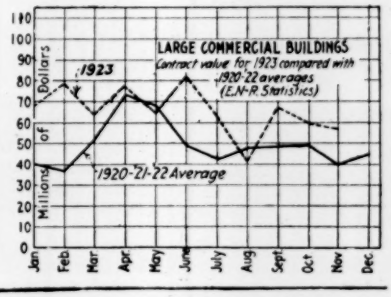
Week Ended	Public: Private	Public: All	Public: Streets and Roads	Public: Waterworks and Sewers	All Buildings
Nov. 22	29	185	47	31	61
Nov. 29	30	176	57	36	51
Dec. 6	40	183	58	27	61

BASIC PRICES STEADY DURING LAST TWO WEEKS

	Quoted on Dec. 13, at	Price was	On
Structurals, Pittsburgh, 100 lb.	$2.50	@2.60	June 21
Cement, Chi., net bbl.	2.10	2.20	Nov. 22
Pine, N. Y., M.ft.	57.00	61.00	Nov. 29
Fir, San Fran., M.ft.	41.00	42.00	Sept. 27
Common labor, hr.	.54	.53	June 28


CONSTRUCTION VOLUME
All large contracts of 1923 compared with composite of 1920-1922 contract letting
E.N-R Index (1913-100)
1923
Composite of years 1920-21-22
Engineering News-Record Statistics
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec





PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Dec. 17	Elizabethtown, Ky.	Nov. 29
Dec. 17	Windsor (New Windsor P. O.), Ill.	Nov. 22
Dec. 17	Richmond, Va.	Dec. 6
Dec. 17	Oakwood (Dayton P. O., O.	Dec. 13
Dec. 17	Madison, S. D.	Dec. 13
Dec. 18	Laurinburg, N. C.	Nov. 22
Dec. 18	Cincinnati, O.	Dec. 13
Dec. 19	San Francisco, Calif.	Dec. 6
Dec. 19	Scituate (North Scituate P. O.), R. I.	Nov. 22
Dec. 19	Denver, Colo.	Dec. 13
Dec. 19	New York, N. Y.	Dec. 13
Dec. 20	Glendale, Calif.	Dec. 13
Dec. 21	Denver, Colo. Adv. Dec. 6 and 13.	Dec. 6
Dec. 21	Greensboro, N. C.	Dec. 13
Dec. 22	Carlisle, Ia.	Nov. 29
Dec. 22	Corsicana, Tex.	Dec. 13
Dec. 23	New Holstein, Wis.	Oct. 11
Dec. 27	Ford, Ont. 4. Adv. Dec. 13.	Dec. 13
Jan. 3	Erie, Pa. Adv. Dec. 6 and 13.	Dec. 6

SEWERS

Bids Close		See Eng. News-Record
Dec. 15	Lewistown, Ill.	Dec. 13
Dec. 17	Bloomfield, N. J.	Dec. 13
Dec. 18	Laurinburg, N. C.	Nov. 29
Dec. 18	Toledo, O.	Dec. 6
Dec. 19	New York, N. Y.	Dec. 13
Dec. 19	Brooklyn, N. Y.	Dec. 13
Dec. 20	Los Angeles Calif.	Dec. 13
Dec. 21	Marlow, Okla.	Dec. 13
Dec. 23	New Holstein, Wis.	Oct. 11

BRIDGES

Bids Close		See Eng. News-Record
Dec. 18	Wisconsin	Dec. 13
Dec. 19	Indianapolis, Ind.	Nov. 29
Dec. 19	Delaware	Nov. 29
Dec. 20	Correctionville, Ia.	Nov. 22
Dec. 20	Audubon, Ia.	Dec. 6
Dec. 24	California	Dec. 6
Dec. 26	Trenton, N. J. Adv. Dec. 13.	Dec. 13
Dec. 28	New Jersey Adv. Dec. 13.	Dec. 13
May 1	Tientsen, North China	Oct. 11

Bids Close		See Eng. News-Record
DAMS		
Jan. 7	Los Angeles, Calif.	Nov. 29
RAILWAYS		
Mar. 18	New Zealand	Sept. 20
EXCAVATION, DRAINAGE IRRIGATION		
Dec. 18	Eureka, Ill.	Dec. 13
Dec. 21	Corpus Christi, Tex.	Dec. 6
Dec. 27	St. Catharines, Ont.	Dec. 13
Dec. 27	Tracy, Calif.	Dec. 13
STREETS AND ROADS		
Dec. 17	East Aurora, N. Y.	Nov. 29
Dec. 17	Grenada, Miss.	Nov. 29
Dec. 17	Marlow, Okla.	Dec. 13
Dec. 18	Indiana	Dec. 6
Dec. 18	Louisiana	Dec. 6
Dec. 18	Rushville, Ind.	Nov. 29
Dec. 18	Angleton, Tex.	Nov. 29
Dec. 18	Michigan	Nov. 29
Dec. 18	Belzoni, Miss.	Nov. 29
Dec. 18	Massachusetts	Dec. 13
Dec. 18	La Porte City, Ia.	Dec. 13
Dec. 18	St. George, N. Y.	Dec. 13
Dec. 19	Sierra Blanca, Tex.	Nov. 29
Dec. 19	Ebensburg, Pa.	Dec. 6
Dec. 19	San Francisco, Calif.	Dec. 13
Dec. 19	Galesburg, Ill.	Dec. 13
Dec. 19	Ebensburg, Pa.	Dec. 13
Dec. 19	Denver, Colo.	Dec. 13
Dec. 19	New York, N. Y.	Dec. 13
Dec. 20	Lakeland, Fla.	Dec. 6
Dec. 20	Hallettsville, Tex.	Dec. 6
Dec. 20	Corsicana, Tex.	Dec. 6
Dec. 20	Connecticut Adv. Dec. 13.	Dec. 13
Dec. 20	Toledo, O.	Dec. 13
Dec. 20	New York, N. Y.	Dec. 13
Dec. 21	Collins, Miss.	Nov. 29
Dec. 21	Topeka, Kan.	Dec. 6
Dec. 21	Corpus Christi, Tex.	Dec. 6
Dec. 21	Uvalde, Tex.	Dec. 6
Dec. 21	Corpus Christi, Tex.	Dec. 13
Dec. 21	La Grange, Tex.	Dec. 13
Dec. 21	Decatur, Tex.	Dec. 13
Dec. 21	Tampa, Fla.	Dec. 13
Dec. 21	Buffalo, N. Y.	Dec. 13
Dec. 22	Hemphill, Tex.	Dec. 6
Dec. 24	San Diego, Calif.	Dec. 13
Dec. 26	St. Louis, Mo.	Nov. 29
Dec. 27	Alabama	Dec. 6
Dec. 27	Somerset, Pa. Adv. Dec. 6 and 13.	Dec. 6
Dec. 27	Beaufort, S. C.	Dec. 13
Dec. 28	Virginia Adv. Dec. 13.	Dec. 13
Dec. 31	California	Dec. 13
Jan. 4	Alabama	Dec. 13
Jan. 7	Vicksburg, Miss.	Dec. 13
Jan. 14	Oilton, Okla.	Dec. 13
Jan. 15	Michigan	Dec. 6
Jan. 15	Michigan	Dec. 13
INDUSTRIAL WORK		
Dec. 15	Toledo, O.	Dec. 13
Dec. 15	Crystal Falls, Mich.	Dec. 13
Dec. 18	Palmyra, N. Y. Adv. Nov. 22 to Dec. 13.	Nov. 22
Dec. 18	Waterbury, Conn.	Dec. 6
Dec. 20	Abilene, Tex.	Dec. 13
Dec. 21	Ft. Worth, Tex.	Dec. 6
Dec. 27	Louisville, Ky.	Dec. 13
Apr. 30	Wellington, New Zealand. Adv. Dec. 6 and 13.	Dec. 6
BUILDINGS		
Dec. 14	Niagara Falls, N. Y.	Dec. 13
Dec. 15	Durham, N. C.	Dec. 6
Dec. 15	Hightstown, N. J.	Dec. 13
Dec. 15	Detroit, Mich.	Dec. 13
Dec. 16	Indiana, Pa.	Dec. 13
Dec. 17	Crown Point, Ind.	Dec. 6
Dec. 17	Camden, N. J.	Nov. 29
Dec. 17	Wash., D. C.	Nov. 29
Dec. 17	Memphis, Tenn.	Dec. 6
Dec. 17	Camden, N. J.	Dec. 13
Dec. 17	Fultonville, N. Y.	Dec. 13
Dec. 18	Ironwood, Mich.	Nov. 15
Dec. 18	Buffalo, N. Y.	Dec. 6
Dec. 18	Phila., Pa.	Dec. 13
Dec. 18	Manchester, Conn.	Dec. 13
Dec. 19	Falls City, Neb.	Nov. 22
Dec. 19	Reading, Pa.	Dec. 13
Dec. 20	Sioux City, Ia.	Nov. 15
Dec. 20	Duluth, Minn.	Nov. 29
Dec. 20	Newark, N. J.	Dec. 6
Dec. 20	Baltimore, Md.	Dec. 13
Dec. 20	Ann Arbor Mich.	Dec. 13
Dec. 21	Wilmington, N. C.	Dec. 6
Dec. 21	Wash., D. C.	Dec. 6
Dec. 21	New Orleans, La.	Nov. 29
Dec. 21	Charleston, W. Va.	Nov. 15
Dec. 21	East Boston (Boston P. O.), Mass.	Nov. 29
Dec. 21	Mansfield, O.	Dec. 13
Dec. 22	Newport, Ind.	Nov. 29
Dec. 27	Brooklyn, N. Y.	Dec. 6
Dec. 27	New Orleans, La.	Dec. 6
Dec. 27	Buffalo, N. Y.	Dec. 13
Dec. 28	Morgantown, W. Va.	Nov. 15
Dec. 30	Ft. Smith, Ark.	Dec. 6
Dec. 31	Bryn Mawr, Pa.	Dec. 13
Dec. 31	Phila., Pa.	Dec. 13
Jan. 1	Williamson, W. Va.	Nov. 22
Jan. 2	Bloomington, Ind.	Nov. 15
Jan. 3	Columbia, Mo.	Dec. 13
Jan. 9	Denver, Colo.	Dec. 13
Jan. 10	Birmingham, Ala.	Dec. 13
Jan. 12	Boston, Mass.	Nov. 29
Jan. 14	Galveston, Tex.	Nov. 29
Jan. 14	Schuylerville, N. Y.	Dec. 13
Feb. 1	Dorchester, Mass.	Nov. 29
Feb. 4	Urbana, Ill. Adv. Dec. 13.	Dec. 13
FEDERAL GOVERNMENT WORK		
Dec. 14	Dredging, etc.—New York, N. Y.	Nov. 15
Dec. 15	Operating Machinery—Louisville, Ky. Adv. Nov. 22 to Dec. 13.	Nov. 22
Dec. 17	Remodeling, etc. — Mobile, Ala.	Dec. 6
Dec. 18	Mailing Vestibule, etc.—Greenville, S. C.	Dec. 6
Dec. 18	Remodeling — Houston, Tex.	Dec. 13
Dec. 19	Dredging — Wilmington, N. C. Adv. Nov. 22 to Dec. 13.	Nov. 22
Dec. 19	Generator, Motor, etc.—Huntington, W. Va.	Nov. 29
Dec. 19	Towboat—Memphis, Tenn. Adv. Nov. 22 to Dec. 13.	Nov. 22
Dec. 19	Bungalows—Wash., D. C.	Nov. 22
Dec. 19	Road—Oregon	Dec. 13
Dec. 26	Extension—Poughkeepsie, N. Y. Adv. Dec. 6 and 13.	Dec. 6
Dec. 27	Post Office, etc.—Paris, Tex.	Dec. 6
Dec. 27	Stone—Portland, Ore.	Dec. 6
Dec. 28	Post Office—St. Johnsbury, Vt.	Dec. 6
Dec. 28	Dredging—Savannah, Ga. Adv. Nov. 29 to Dec. 13.	Dec. 6
Dec. 28	Changes, etc. — Omaha, Neb.	Dec. 6
Dec. 29	Metal Work—Louisville, Ky. Adv. Dec. 6 and 13.	Dec. 6
Dec. 29	Hospital—Livermore, Calif.	Dec. 13
Jan. 2	Post Office—Liberty, Mo. Adv. Dec. 6 and 13.	Dec. 6
Jan. 3	Gates—Washington	Dec. 6
Jan. 3	Lock Gates—Addison, Ky. Adv. Dec. 6 and 13.	Dec. 6
Jan. 3	Post Office and Custom House —Mineral Point, Wis.	Dec. 13
Jan. 10	Steel Hulls — Vicksburg, Miss. Adv. Dec. 6 and 13.	Dec. 6
Jan. 16	Fuel Oil Storage—Mare Island, Calif.	Dec. 6
Jan. 30	Ward—Great Lakes, Ill.	Nov. 15
UNCLASSIFIED		
Dec. 17	Bulkhead—Gresham, Ore.	Dec. 13
Dec. 18	Test Borings—Phila., Pa.	Dec. 13
Dec. 20	Steel Frame and Rolling Doors —New Orleans, La.	Dec. 6
Dec. 20	Pavilions—New York, N. Y.	Nov. 29
Dec. 24	Heating and Ventilating Apparatus—Cincinnati, O.	Nov. 29
Dec. 26	Culverts and Extensions — Waterloo, Ia.	Dec. 13
Jan. 3	Aluminum Steel Cored Cable, etc.—Melbourne, Australia	Nov. 1
Jan. 3	Ferry Boats—New Orleans, La.	Dec. 13
Jan. 19	Transformers, etc.—Melbourne, Australia	Oct. 18
Mar. 31	Hopper Dredge — Brisbane, Queensland, Australia	Nov. 1
Apr. 30	Headworks—Wellington, New Zealand Adv. Dec. 13.	Dec. 13
MATERIALS AND EQUIPMENT		
Dec. 20	Tractor—Crookston, Minn.	Dec. 13
Dec. 21	Clam Shell Bucket—Los Angeles, Calif.	Dec. 13
Dec. 21	Paving Blocks—New York, N. Y.	Dec. 13
Dec. 29	Tractors, etc.—Texas	Dec. 6

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., La Salle — Plans 100,000 gal. standpipe on Point Ave. $24,000. Will mature in spring.

N. J., Asbury Park—Plans extensions and additions to water system, incl. fittings, valves, hydrants, etc. $17,000. R. Bartley, Jr., Asbury Park, engr.

N. C., Conover—Making plans and takes bids within 30 days water and sewerage system. Spoon & Lewis, Greensboro, consult. engrs.

N. C., Old Fort—See "Industrial Works."

Ky., Morgansfield—Takes bids soon pipe line system to Ohio River for water supply. $100,000. Noted Oct. 18.

Ill., Deerfield—Plans mains in Brier Woods Subdivision. $25,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Mt., Prospect—Plans extension to mains. $30,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Rushville—Voted $37,000 bonds to purchase c.i. pipe, etc.

Wis., Eau Claire — Having preliminary plans prepared 2½-3 mi. 6-8 in. c.i. mains in various streets. $25,000. J. T. Hurd, city engr.

Wis., Portage—C. L. Loomis, city clk., soon takes bids water purification plant, new pumping station, etc. $100,000. Pearse, Greeley & Hansen, 39 West Adams St., Chicago, engrs.

Kan., Olathe—City plans new pump and pipe lines, etc. $25,000. E. T. Archer Eng. Co., 612 New England Bldg., Kansas City, Mo., engrs.

Kan., Topeka — City having preliminary plans prepared 4 mi. 10 to 12 in. c.i. water pipe, approximately 200 tons pipe. Will be laid early in 1924. W. Stanfield, City Hall, Comr.

Mo., Ava—Dec. 21, to vote on $35,000 bonds for reservoir, water tower, distribution mains, etc. Elston, Axon & Russell, 404 McDaniel Bldg., Springfield, archts. Noted Nov. 8.

Mo., Hannibal—Voted $400,000 bonds new pumps and motors, filtration plant, high service reservoir and new mains, etc. D. H. Maury, 304 South Dearborn St., Chicago, engr. Noted Nov. 8.

Ark., Morrilton—Arkansas Light & Power Co., Pine Bluff, plans to clean 25 m.g. natural reservoir, construct rein.-con. coagulating basin with 2 gravity filters, rein.-con. clear well together with necessary pumps and piping incl. about 550 cu.yd. rein.-con. work. Work will probably be done by day labor. Private plans. $50,000.

Tex., Corsicana—Plans 30 x 60 ft. pumping plant, two 150 hp. Fairbanks-Morse centrifugal engines, etc. $15,000. W. W. McClendon, city engr.

Tex., Port Arthur — See "Streets and Roads."

Okla., Okemah—Dec. 18, to vote on $65,000 bonds new filter unit, 6,000 ft. 10 in. c.i. pipe line, marine engine, clear well and reservoir. Holway Eng. Co., 505 Wright Bldg., Tulsa, engrs. Noted Oct. 25.

Okla., Oklahoma City — City voted $1,600,000 bond issue for 350 ft. extension to main dam, new control works, bank widening and gates for control, 60,000 concrete, 150,000 excavation. B. M. Hart, City Hall, engr. Noted Nov. 29.

Wash., Centralia — City Council plans auxiliary pumping and filtration plant on Skookumchuck River, 1,500,000 g.p.d. capacity (ultimately 6 m.g.p.d.). $40,000. N. W. Avery, Centralia, engr. Noted Nov. 22.

Calif., Fresno—See "Streets and Roads."

Calif., Marysville—Yuba Development Co., Hobart Bldg., San Francisco, having plans prepared for Narrows Project on Yuba River, incl. storage dam 150 ft. high above stream bed and 65 ft. below, 825 ft. long on crest, 200 ft. long on bottom, involving 97,000 cu.yd. concrete; 1,700 ft. concrete lined pressure tunnel, 15 in. diam.; 300 ft. steel penstock; power plant to develop 17,000 hp., etc. Constant Angle Arch Dam Co., Hobart Bldg., San Francisco, engrs.

Calif., Napa — City had plans prepared laying approximately 25,000 ft. 14 in. pipe for distribution of water from Milliken

Waterworks (Continued)

Canyon Municipal Water project. A. Kempkey, Hobart Bldg., San Francisco, consult. engr.

BIDS DESIRED

N. Y., New York — Dec. 19, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Edgewater Rd., Coster and Longfellow Sts., Oak Point, Viele, Brinsmade, Calhoun, Miles, Quincy, Revere, Sampson and Swinton Aves. Former bids rejected. Noted Dec. 6.

N. C., Greensboro — Dec. 21, by P. C. Painter, city mgr., trenching, tunneling, laying 36,450 ft. 20-30 in. c.i. pipe, and furnishing all material except c.i. pipe, specials and valves.

O., Cincinnati—Dec. 18, Director Pub. Serv., c.i. pipe and castings for water distribution system in Winton Rd., Froome and Mitchell Aves. $100,000. J. A. Hiller, engr.

O., Oakwood (Dayton P. O.)—Dec. 17, at office of A. O. Davison, clk. Bd. Trustees of Pub. Affairs, of Village of Oakwood, 413 Schwind Bldg., Dayton, standpipe, 70 ft. high, 35 ft. in diameter, incl. necessary pipe connections, alternate bids at same time for tower tank, 65 ft. high, 325,000 gal. capacity; also 2 extensions to water system. 4,025 lin.ft. 6 in. pipe, here. Noted April 19.

Wis., Wisconsin Rapids—Water & Light Comn., c/o C. Gross, chn., 344 2nd Ave., taking bids 100 g.p.m. centrifugal motor driven pump. Private plans.

S. D., Madison—Dec. 17, furnishing 500 lin.ft. 4 in., 1,525 lin.ft. 6 in., 325 lin.ft. 10 in. c.i. pipe, 3,100 lb. fittings, five 4 in. and seven 6 in. valves with street boxes. C. A. Trimmer, city engr.

Tex., Corsicana—Dec. 22, by W. W. McClendon, city engr., spillway incl. 1,800 yd. concrete and 200,000 lb. reinforcing steel. $28,000. Noted Nov. 29.

Colo., Denver—Dec. 19, by Bd. Water Comrs., twenty-two 30-48 in. hub end valves, bids on 3 propositions, (1) hand operated (2) hydraulically operated (3) electrically operated; 1,198 pieces 20-24 in. Class B Bell and Spigot c.i. pipe, etc. $89,082; 2,272 pieces 36-48 in. Class B8791 Class B Bell and Spigot c.i. pipe, 122 tons specials 30-48 in., $412,572. B. Lowther, 1509 Cleveland Pl., engr.

Calif., Glendale — Dec. 20, by City Trustees, earth reservoir, 15 m.g. capacity, part plain excavation and part embankment, lined with 6 in. rein.-con. or wire mesh. B. F. Dupuy, city engr.

Calif., Montecito—Trustees Montecito Co. Water Dist. taking bids excavating and laying 15,976 ft. 12 in., 4,550 ft. 10 in., 21,000 ft. 8 in. and 20,150 ft. 6 in. c.i. pipe, and one hundred and seventy-four 4 in. fire hydrants. Leeds & Barnard, Central Bldg., Los Angeles, consult. engrs.

Ont., Ford — Dec. 27, by R. B. Braid, secy. Essex Border Utilities Comn., Heintzman Bldg., Windsor, filter, reservoir, office building, pipe, etc., for water purification plant, here. J. C. Keith, ch. engr.; adv. E. N.-R. Dec. 13.

BIDS RECEIVED

O., Toledo—Director Pub. Serv., Dec. 4, synchronous motor driven centrifugal pump and appurtenances, 35 m.g. daily capacity, from Dravo-Doyle, Leader News Bldg., Cleveland, $25,222. Engrs. est. $18,600. Noted Nov. 22.

Calif., Pasadena—City Water Dept., 12,000 ft. 4 in., 16,000 6 in., 16,000 8 in. and 4,000 ft. 12 in. Class B c.i. pipe, and 25 tons c.i. "D" fittings, from Pacific Pipe & Supply Co., 1002 Santa Fe Ave., Los Angeles, A. W. W. A. pipe $56,482, Pont-A-Mousson $47,901, fittings $2,888; Amer. Cast Iron Pipe Co., 439 East 3rd St., Los Angeles, Class B 16 ft. lengths $55,460, fittings $2,898; Natl. Cast Iron Pipe Co., Los Angeles, Class B 12 ft. lengths $56,216, De Lavaud type $53,411, fittings $2,890.

CONTRACTS AWARDED

N. Y., Brooklyn — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Kingshighway and Ave. P. to N. De Stefano, 257 Glenn Ave., Tompkinsville, $20,300. Noted Nov. 29.

N. Y., Grand Island — Bd. City Comrs. water system, to Chicago Bridge & Iron Co., 608 South Dearborn St., Chicago, $10,000. Noted Nov. 15.

Pa., Bethlehem — Rein.-con. reservoir, 2 m.g. capacity, to F. H. Clement Co., Inc., Bethlehem, $80,781. Noted Oct. 18 and Nov. 29.

W. Va., Huntington—Chesapeake & Ohio R.R. Co., 823 East Main St., Richmond, Va., water treating plant, here, to Pittsburg-Des Moines Steel Co., Curry Bldg., Pittsburg. Engrs. est. $40,000.

Ky., Russell—Chesapeake & Ohio R.R. Co., 823 East Main St., Richmond, Va., water treating plant, here, to Pittsburg-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa. Est. cost $40,000.

Ill., Burnham—Mains in Bakers Subdivision, to Public Constr. Co., Hammond, Ind., $25,000.

Tex., Dallas—Rucker — Jones, Adolphus Hotel, water mains, to W. H. Kramer, Sumpter Bldg., $23,000.

Tex., Ennis—For engine driven belt connected centrifugal pumps, to Smith & Whitney, Kirby Bldg., Dallas, $10,000.

Wash., Seattle—Bd. Pub. Wks., mains, to Coluccio & Erickson, Thompson Bldg., 6,025 ft. 16 in. c.i. mains $5.98, 115 ft. 12 in. $3.60, etc., total $44,108. Engrs. est. $46,780. Noted Dec. 6.

Sewers

PROPOSED WORK

N. Y., Johnson City—Plans election soon to vote on $65,000 bonds rein.-con. and vitr. clay sanitary sewers in streets from Riverside Dr. along tracks of Delaware, Lackawanna & Western R.R. to Willow St. through Willow St. to Grand Ave., Grand to Burbank Aves., Burbank to Farr Aves., Farr to Lincoln Aves., Lincoln Ave. to Division St. F. A. Tillman, Municipal Bldg., engr.

N. J., Lakewood—General Engineering & Management Corp. making plans sewage treatment plant, consisting of clarification and sludge digestion tanks and pumping station, 2 m.g. daily capacity. $35,000. Remington & Vosbury, 601 Market St., Camden, engrs.

N. J., Westmont — Haddon Twp. had plans prepared disposal plant, brick sludge pumping station, concrete septic tank, and 75,000 ft. 5-10 in. terra cotta sewer in French Estates, Burrwood tract, etc. $60,000. Remington & Vosburg, 601 Market St., Camden, engrs.

N. C., Conover—See "Waterworks."

N. C., Old Fort—See "Industrial Works."

Ga., Bainbridge—Plans extensions to sewerage system. $100,000. O. H. Lang, Moultrie, engr.

Tenn., McKenzie—Sold $85,000 bonds for sewerage system. H. C. Bryant, city clk.

O., Canton—Soon takes bids enlarging disposal plant. $500,000. McClaskey & Reese, Renkert Bldg., engrs. Noted May 24.

O., Lima—Plans 3,500 ft. 22-42 in. sanitary sewers in East Eureka St. $92,000. C. A. Bingham, city mgr. Engineer's name withheld.

O., Wadsworth—Making plans sewage treatment plant. $125,000. R. E. Garvin, Davis & Farley Bldg., Cleveland, engrs. Noted May 10.

Ill., Burr Oak (Chicago P. O.) — Plans sewers in various streets. $40,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Deerfield—Plans sewerage system in Brier Woods Subdivision. $25,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Galesburg—Plans storm and sanitary sewers and disposal plant. $1,000,000. Pearse, Greeley & Hansen, 39 West Adams St., Chiago, engrs.

Ill., Niles Center—Plans sewers in Main St. $300,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engr.

Wis., Eau Claire—Making plans 1½ mi. concrete or vitr. sewers. $25,000. J. T. Hurd, City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv. and Citizens Bond Issue Supervising Com. approved $392,000 bonds reconstructing sewers, $1,310,000 bonds new sewers, incl. North Baden Sewer, Ohio Montrose Sewer and Rocky Branch Sewers 1 and 2. W. W. Horner, city engr.

Mo., St. Louis—See "Excavation, Drainage, Irrigation."

Mo., St. Louis—Soon takes bids 31,015 ft. 8-24 in. vitr. clay and 2,975 ft. 30-39 in. segmental block or brick sewer in Wherry Ave. Dist. Sewers 1 and 2, $176,000; 5,835 ft. 6-12 ft. rein.-con. and 9,940 ft. 36-69 in. segmental block or brick, (vitr. clay pipe will also be considered), in Sects. 1 and 2 Wherry Ave. Joint Sewer, $477,000; 11,860 ft. 8-27 in vitr. clay and 1,725 ft. 36-66 in. brick or segmental block sewer in Glaise Creek Sewer Dists. 15, 19 and 24, $63,500; 505 ft. 10-12 in. vitr. clay sewer in Clifton Heights Dist. Sewer 4, $3,500; 3,455 ft. 12-33 in. vitr. clay and 6,440 ft. 36-78 in. brick or segmental block sewer in Union-Bircher Joint Sewer Dist., $160,000; 4,065 ft. 39-72 in. segmental block or brick sewer in Loughborough Ave. Joint Dist., $65,000. W. W. Horner, City Hall, engr.

Tex., Corsicana — Had tentative plans prepared extending sewerage system to west end of city and West 2nd Ave. $40,000. W. W. McClendon, city engr.

Tex., Dallas—Having revised plans prepared and will readvertise disposal plant along Trinity River, incl. 12 Imhoff tanks, sewers, etc. $150,000. Former bids rejected. E. A. Kingsley, city engr. Noted Nov. 22.

Tex., Dallas—Rick & Hurt, Trust Bldg., making plans sanitary sewers for new addition, North Henderson Ave., etc. $25,000. Myers & Noyes, Mercantile Bank Bldg., engrs.

Tex., Lubbock—Voted $200,000 bonds for storm sewer. M. S. Ruby, city mgr.

Tex., Port Arthur — See "Streets and Roads."

Tex., San Antonio—Voted $100,000 bonds sanitary sewers, also $250,000 bonds for storm sewers. I. Ewig, city engr. Noted Nov. 22.

Tex., Waco—Dec. 29, to vote on $350,000 bonds sewage disposal plant. $75,000 bonds sanitary sewers. V. G. Koch, city engr. Noted Oct. 4.

Calif., Fresno—See "Streets and Roads."

Calif., Glendale—Jan. 8, to vote on $1,000,000 bonds sewers.

Ont., Hamilton—Jan. 1 to vote on $260,000 bonds extending sewers in Birch Ave. Dist. W. L. McFaul, city engr.

BIDS DESIRED

N. Y., Brooklyn—Dec. 19, by E. Riegelmann, boro pres., Boro Hall, temporary sanitary sewers in Clarendon Rd., East 38th and East 39th Sts.; East 37th St. between Clarendon Rd. and Ave. D with temporary connection at East 37th St. and Ave. D.

N. Y., New York—Dec. 19, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Erickson Pl., Melville St., Zulette, Wellman, Findlay, Van Nest, Rhinelander, Yates and Wilson Aves., Mayflower Ave. from Wellman to Maitland Aves., Mayflower Ave. from Roebling to Zulette Aves., Mayflower Ave. from Zulette to Wellman Aves.

N. Y., St. George — See "Streets and Roads."

N. J., Bloomfield—Dec. 17, at office of J. C. Johnson, town clk., 4,640 lin.ft. 12-27 in. concrete sewer in portions of Glenwood and Linden Aves., 2nd and Thomas Sts. E. Baechlin, Bloomfield Natl. Bank Bldg., town engr.

Pa., Castle Shannon—Dec. 11, by Boro. Council, sewers in Dist. 1, incl. 17,800 lin.ft. 8 in., 1,325 lin.ft. 10 in., 2,018 lin.ft. 12 in. and 50 lin.ft. 24 in. terra cotta pipe. Douglass & McKnight, 912 Columbia Bank Bldg., Pittsburgh, boro engrs. Noted Oct. 18.

O., Cleveland—Dec. 13, East 185th St. sewer from Lake Erie to Nottingham Rd. To exceed $25,000. R. Hoffman, City Hall, engr.

Ill., Lewistown—Dec. 15, by R. Brown, city clk., 13,000 ft. 8 in. vitr. sewers, sewage disposal tank, sludge bed, etc., $25,000. W. A. Fuller Co., 1917 Ry. Exch., St. Louis, Mo., engrs. Noted Nov. 15.

Tex., Houston — City Com. taking bids storm sewers in Waugh Dr. $25,000. J. C. McVea, city engr.

Tex., Park Place (Harrisburg P. O.)—Taking bids disposal plant, 10 mi. 6-15 in. sewer, 250 G H P motor driven pump, etc. $40,000. C. C. Gordon, 210½ Main St., Houston, engr. Noted Oct. 4.

Okla., Marlow—Dec. 21, by G. L. Orr, city clk., 13,700 ft. 8 to 10 in. vitr. clay sanitary lateral sewers and submains, 7,000 cu.yd. earth trenching, 4 flush tanks, etc. $26,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Nov. 15.

Calif., Los Angeles — Dec. 20, by Bd. Pub. Wks., construction 3 units outfall sewer, concrete pipe with vitr. clay block lining of approximately 100 sq.ft. cross sections, Sect. 6 15,600 lin.ft., Sect. 8 11,596 lin.ft., Sect. 9, 6,267 lin.ft.

Calif., Morgan Hill—Town Trustees taking bids sewerage system; 25,606 lin.ft. 6-10 in. vitr. pipe, 63 brick and concrete manholes; water mains; 2,000 lin.ft. 4 in. c.i. pipe, 1,400 lin.ft. 2 in. galvanized w.i. pipe; treatment plant; 940 cu.yd. excav., 7,600 cu.ft. concrete, 15,100 lb. reinforcing, 600 cu.yd. crushed rock for filter and sludge beds, also filters, sprinklers, valves, etc.;

Sewers (Continued)

pump house; two 4 in. pumps, 16 to 21 ft. head, 1,000 ft. r. w. lumber for baffles and troughs. C. C. Kennedy, Call Bldg., San Francisco, consult. engr. Noted Nov. 1.

BIDS RECEIVED

N. Y., Brooklyn — E. Riegelmann, boro pres., Boro Hall, Dec. 5, sewers in (1) Fort Hamilton Parkway, engrs. est. $17,100 (2) Ferris St. $4,217 (3) 80th St. $3,398 (4) East 28th St. $1,867 (5) Fort Hamilton Parkway between 83rd and 84th Sts. $1,813 (6) Fort Hamilton Parkway between Bay Ridge Ave. and 68th St. $1,625 (7) Fort Hamilton Parkway between 72nd and 73rd Sts. $1,542 (8) Douglass St. $1,200 (9) Ave. N, $800, from C. F. Vacharas, 645 40th St., (1) 78% engrs. est. (3) 90% (4) 98.7%; Tomassetti & Co., 1133 60th St. (2) 98%; Nazzarro & Querriero, (5) 101.99% (6) 98% (7) 97.97%; R. Iovino, (8) 84% (9) 84%.

Md., Baltimore—Bd. Awards, Dec. 5, 13,500 ft. 6-48 in. sewers and drains, Contr. 207, from Adams & Marino Co., 216 St. Paul St., $59,236. Noted Nov. 29.

Calif., Los Angeles—Bd. Pub. Wks., Sect. 4 north outfall sewer, between Playa del Rey and Hyperion, 11,050 lin.ft. semi-elliptical concrete sewer, 10 ft. 6 in. in height, from Ross Constr. Co., Oschner Bldg., Sacramento, $237,400. Noted Nov. 15.

CONTRACTS AWARDED

Conn., Hartford—Street Dept., sewers in Cornwall, Thomaston and Plainfield Sts., to A. DiMarco, 61 East Main St., Plainville. Engrs. est. $26,000. Noted Apr. 4.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Forest St. to J. Gallo, 203 Division St., Brooklyn, $1,011; 45th Ave., to Kennedy & Smith, 93 Amity St., Flushing, $13,939; 99th and 108th Sts., also 134th St. from Wyoming to Liberty Aves., to Gross Contg. Co., 233 Bway., New York, $757. $3,189 and $2,096 respectively; 134th St. from 101st to Liberty Aves., to J. F. Clancy, Inc., 460 Lockwood St., Astoria, $3,532. Noted Nov. 29.

Ill., Niles Center—Sewerage system in College Hill Subdivision, to Cannell-Conrad Constr. Co., Brook and Avery Sts., Louisville, Ky., $77,895. Noted June 27.

Ill., Palatine—Sewerage system to Seig Constr. Co., Waterloo, Ia., $141,335. Noted June 27.

Ont., Hamilton—Will lay 8, 10 and 12 in. sewers in Fairfield and Alexander Sts., by day labor. $42,000. W. L. McFaul, city engr.

Waste Disposal

PROPOSED WORK

N. Y., Woodhaven—City of New York, Boro Hall, Long Island City, having plans prepared 2 story rein.-con., brick and steel incinerator, plain foundation, Stanley Ave., here. $289,000.

Ont., Sarnia—Election in January to vote on $25,000 bonds for remodeling incinerator and installing new furnaces. M. D. Stewart, city engr.

CONTRACTS AWARDED

Miss., Lumberton—Hines Yellow Pine Co., 60 x 100 ft. refuse burner, together with 11 Dutch ovens, boiler, etc., concrete, steel and brick, to J. V. and R. T. Burkes, Carondelet Bldg., New Orleans, La.

Tex., San Antonio—For brick incinerator, 40 ton capacity, Roosevelt Ave., to Superior Incinerator Co., Dallas, $36,250. Noted Nov. 22.

Bridges

PROPOSED WORK

N. Y., Schenectady—New York Central R.R., Grand Central Terminal, New York City, plans 2 span bridge (one 130 ft. and other very small pony trust) 9 mi. east of here. $150,000. G. W. Kittredge, ch. engr.

Fla., Jacksonville — Duval Co. rejected bids on bridge over McGirts Creek, also bridge over Trout Creek. Plans to be revised and work readvertised. C. S. Coe, Jacksonville, co. engr. Noted Oct. 25.

Ky., Carrolton—See "Streets and Roads."

Wisconsin—See "Streets and Roads."

Wis., Washburn—Bayfield Co. voted $30,000 bonds bridge across Sioux River. L. Tranmal, co. clk.

Tex., San Antonio—Voted $100,000 bonds for bridge program. I. Ewig, city engr. Noted Nov. 15.

Okla., Elk City—See "Streets and Roads."

Okla., Oklahoma City—City having plans prepared and soon takes bids rein.-con. and steel viaduct. $250,000 bonds voted. B. M. Hart, City Hall, engr.

Okla., Oklahoma City — Oklahoma Co. voted $500,000 bonds for 19 steel and concrete bridges to replace those recently destroyed by flood. R. S. James, Court House, engr.

Okla., Oklahoma City—City and Oklahoma Co. voted $400,000 bonds for 1,800 ft. steel viaduct, Walker Ave. R. S. James, Court House, engr. Noted Nov. 8.

Calif., Riverside — Riverside Co. had plans prepared 3 timber pile trestle bridges on Temecula Rd., Dripping Springs Bridge, 93 ft. long, Tripp Bridge, 162 ft., Pauha Bridge, 231 ft. A. C. Fulmore, co. surv.

BIDS DESIRED

Conn., Southbury — See "Streets and Roads" under Connecticut.

New Jersey—Dec. 28, by State Hy. Dept., Trenton, 73 ft. span bridge, steel encased in concrete, incl. removal of existing bridge, etc., over Passaic River, M. P. 32.2, State Highway Route 16, in municipalities of Bernard and Passaic, Somerset and Morris Counties. J. L. Vogel, 772 Broad St., Newark, bridge engr.; adv. E. N.-R. Dec. 13.

N. J., Trenton—Dec. 26, by Mercer Co., Court House, steel and concrete bridge over Sanhican Creek, Lee Ave. H. F. Harris, Court House, co. engr.; adv. E. N.-R. Dec. 13.

Kentucky—Jan. 8, by State Hy. Dept., Frankfort, 300 ft. rein.-con. and steel bridge with two 150 ft. spans, also 240 ft. rein.-con. and steel span bridge, both over Cumberland River, on Harlan-Pineville Rd., Harlan Co. J. S. Boggs, state highway engr.

Wisconsin—Dec. 18, by State Hy. Comn., at div. office 1, 149 East Wilson St., Madison, bridge with one 70 ft., two 61 ft., and two 55 ft. rein.-con. arch spans at Sta. 94-A plus 13.5 on Watertown-Hubbleton-Waterloo Rd., Federal Aid Project 316, Dodge and Jefferson Counties. A. R. Hirst, Madison, highway engr.

BIDS RECEIVED

New Jersey—State Hy. Dept., Trenton, Dec. 10, 80 ft. single leaf overhead counterweight bascule highway span, 30 ft. roadway, concrete piers, etc., over Cedar Bonnet, Manahawken Bay, on road between Manahawken and Beach Haven, in municipality of Stafford, Ocean Co., from Krellwitz Constr. Co., Kinney Bldg., Newark, 116.9% engrs. est. ($79,509). Noted Nov. 22.

N. J., Rochelle Park — State Hy. Dept., Trenton, Dec. 5, concrete encased I-beam bridge, incl. removing existing bridge over Saddle River, Route 10, M. P. 2.9, Bergen Co., here, from P. A. Hennessy & Sowell, Hightstown, $28,356. Noted Nov. 22.

North Carolina — See "Streets and Roads."

North Carolina—State Hy. Comn., Raleigh, bridging **(S. P. means State Project)** rein.-con. bridges and culverts on S. P. 791-A, Yadkin Co., from Luten Bridge Co., 405 East 4th Ave., Knoxville, Tenn., $39,225, on S. P. 237-A, Johnston Co., from H. M. Beasley, Lumberton, $56,725, on S. P. 513, Caswell Co., from R. W. Curtis, Lynchburg, Va., $69,157, on S. P. 912, Cherokee Co., from W. T. Moore, Andrews, $100,270; rein.-con. and structural steel bridge over Chowan River on S. P. 148, Hertford and Gates Counties, from Roanoke Iron & Bridge Co., Roanoke, Va., $134,648. Noted Nov. 15 under "Streets and Roads."

S. C., Georgetown—Comrs. Georgetown Co., 440 ft. rein.-con. and steel bridge over Black River, on State Route 40, Federal Aid Project 223, from Atlantic Bridge Co., Roanoke, Va., $34,700. Noted Nov. 22.

Wis., Milwaukee—Park Bd., City Hall, piling for Mason St. viaduct, wood piling from W. F. Tubising Co., 373 Bway., $76,500; concrete piling, from Simplex Pile Foundation Co., Keystone Bldg., Pittsburgh, Pa., $113,300. Noted Nov. 22.

Kan., Winfield—Crowley Co., East Madison Bridge over Walnut River, steel truss, two 130 ft. spans, from Maxwell Constr. Co., Columbus, O., $49,305. Noted Aug. 23.

Tex., Canadian—Hemphill Co., 620 ft. steel extension to present bridge over Canadian River, 4 spans, (a) pile head bars in trusses, (b) die forged bars in trusses, from Austin Bridge Co., Coombs St., Dallas, (a) $45,692, (b) $47,042; Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, Mo., (a) $45,393, (b) $47,393. Noted Nov. 15.

Tex., Jasper—See "Streets and Roads."

CONTRACTS AWARDED

New Jersey—State Hy. Comn., Trenton, bridge over Raritan River between Perth Amboy and South Amboy, Federal Aid Project 20, incl. 5,536 lin.ft. earth fill approaches, 1,077 lin.ft. rein.-con. viaduct and main bridge consisting of 1,536 lin.ft. steel plate girder spans carried on concrete piers supported on pile and faced with granite, and 360 ft. span, etc., to Stillman Dobrhanty, Ferris Co., 1 Exchange Pl., Jersey City, $3,702,992. Noted Dec. 6.

N. J., Freehold—Monmouth Co., Bridge H1-48, one 70 ft. plate girder encased in concrete on Squankum-Lakewood Rd., to S. S. Thompson & Co., Herbert St., Red Bank, $29,580. Noted Nov. 15.

Ala., Jasper—Walker Co., several concrete culverts on highways, to Cochran & Mayers, Gadsden, $25,000.

Kan., Arkansas City—Crowley Co., (Winfield), Madison Ave. Bridge here, 130 ft. steel truss span, concrete floor and rein.-con. abutment on Federal Aid Project 163, to Maxwell Contg. Co., Columbus, $49,305. Noted Dec. 6.

Ia., Jefferson—Greene Co., 19 culverts and extensions to Kramme & Benson, Ft. Dodge, $6,251; widening 5 span concrete arch bridge, to Lundgren-Reis Co., 65 College St., Des Moines, $14,379 1 I beam and 1 culvert extension, to C. J. Kramme & Co., Ft. Dodge, $5,413. Noted Nov. 15.

N. D., Pembina—States of North Dakota and Minnesota, Pembina Co. and Kittson Co., bridge over Red River on Federal Aid Project 300, two 344 ft. spans, to Linton Constr. Co., Linton, $175,000. Noted Nov. 22.

Dams

PROPOSED WORK

Conn., Winchester—Torrington Light Co., Torrington, making plans 20 x 600 ft. dam, here. W. C. Smith, Waterbury, engr. Noted Nov. 11.

Tex., San Antonio—Voted $1,800,000 bonds retention dam, north end of city, earth and rein.-con. I. Ewig, city engr. Noted Nov. 15 under Unclassified.

Okla., Altus—See "Waterworks."

Ariz., Holbrook — Woodruff Irrigation Dist., plans election to vote on $40,000 bonds for diversion dam in Little Colorado River.

Calif., Marysville—See "Waterworks."

Railways

PROPOSED WORK

New York—See "Streets and Roads under "Albany, N. Y."

Texas—Jefferson Northwestern R.R., Jefferson, making surveys 40 mi. extension from Marietta to Clarksville. H. B. Montgomery, Jefferson, ch. engr.

Texas — Stamford & Northwestern Ry. subsidiary of Chicago, Burlington & Quincy Ry., 547 West Jackson Blvd., Chicago, plans extension from Spur to Plainview. $300,000 initial cost. A. Q. Newton, ch. engr. Chicago, Burlington & Quincy Ry.

California—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans to repair pavements and rebuild railway tracks on portions of T St. in Sacramento. $25,000 or more. Private plans.

CONTRACTS AWARDED

Connecticut—International Silver Co., 48 State St., Meriden, 2,000 ft. track, incl. all accessories, in Meriden, to L. Suzio Constr. Co., State and Brooks Sts., Meriden. Engrs. est. $25,000.

Kentucky — Louisville & Nashville R.R. Co., 10th St. and Bway., Louisville, second tracking 18.3 mi. from Ft. Estill to Conway, to Brooks, Calloway Co., Walton Bldg., Atlanta, Ga., Codell Constr. Co., Winchester, and Boxley Bros. Co., Orange, Va. Est. cost $500,000. Noted June 14.

Excavation, Drainage, Irrigation

PROPOSED WORK

New York—J. A. Delaney, comr. Docks, Pier "A" foot of Battery Pl., New York City, rejected bids Nov. 30, dredging channel, constructing dikes, placing fill on West Island in connection with improvement of Jamaica Bay, Queens Boro. Will readvertise. Noted Dec. 6.

Wis., Milwaukee—Plans dredging 3 rivers during 1924. $50,000 available. J. Schwada, city engr.

Mo., Oregon—Holt Co. plans ditches, drainage and reclamation work. Election later to vote on $325,000-$350,000 bonds. C. E. Jacoby Eng. Co., Shukert Bldg., Kansas City, engrs.

Mo., St. Louis—Bd. Pub. Serv. and Citizens Bond Issue Supervising Com. approved $500,000 bonds for open channel from

Excavation, Drainage, Irrigation (Continued)

Southwest Ave. to Knox St., River Des Peres Project. W. W. Horner, city engr.

Calif., Dixon — East Dixon Irrigation Dist. having preliminary plans completed irrigation district comprising 30,000 acres in Solano Co., near Dixon, incl. installation of pumping plants, canals, etc. $1,000,000 or more. F. C. Herrmann, Merchants Exch. Bldg., San Francisco, consult. engr.

Calif., Karlo—Private irrigation company headed by R. Krims, Yeon Bldg., Portland, Ore., having surveys made to irrigate approximately 8,000 acres land. Project includes earth and rock fill dam, 33 ft. high, 2,800 ft. long on top, 1,200 ft. on bottom, 12 ft. wide on top, 18,000 ft. 18½ ft. canal, etc. Cope, Means & Rand, 58 Sutter St., San Francisco, engrs.

Calif., Madera—San Joaquin River Water Storage Dist. to vote on bond issue for system to irrigate approximately 552,000 acres in San Joaquin Valley. Engineer not selected. A. L. Cowell, Merced, and E. F. Treadwell, California Commercial Union Bldg., San Francisco, attorneys representing interests in project.

Calif., Ravendale—Red Rock Creek Irrigation Dist., to vote on $950,000 bond issue for irrigation 23,500 acres, incl. construction 3 new dams and enlargement 2 existing dams, 50 mi. canals. T. H. Means, 58 Sutter St., San Francisco, consult. engr. Noted June 28.

Calif., Ventura—Ventura Co. D. D. 2, having surveys completed for drainage system to reclaim 2,000 acres. C. W. Petit, Ventura, consulting engr.

BIDS DESIRED

Ill., Eureka—Dec. 18, by Comrs. Rome View Drainage and Levee Dist., at office Woodford Co. Clerk, (Eureka), Sect. 1, 1,457,358 cu.yd. floater work; Sect. 2, 243,215 cu.yd. dry land work; Sect. 3, 207,530 cu.yd. internal drainage floater work. C. H. Kreiling, Havana, engr.

Calif., Tracy—Dec. 27, by G. M. Hench, Secy. of Tracy-Clover Irrigation Dist., deepening main ditches from 1 to 2 ft., yardage not less than 2,500 cu.yd., but district reserves right to increase to 10,000 cu.yd., construction 1 main r.w. headgate for main canal No. 2, seven 4 ft. r.w. headgates at points designated by Superintendent of District.

Ont., St. Catharines—Dec. 27, by J. W. Pugsley, secy. Dept. Rys. & Canals, constructing Sect. 8, Welland Ship Canal. Noted Nov. 22.

BIDS RECEIVED

Calif., Blythe—Palo Verde D. D., constructing West Side Drain, from D. A. Foley, Van Nuys Hotel, Los Angeles, 300,000 cu.yd. earth excav. $0.18 yd.; 75 acres clearing $50; 1,800 lin.ft. piling, bridges, $3.30 ft.; 46,000 ft. lumber, $110 per M.; 200 ft. piling in flumes $5.40 ft.; 4,000 ft. lumber in flumes $125 per M; 25 cu.yd. concrete $55 yd., etc. Noted Nov. 15.

Calif., Knights Landing (Grafton P. O.) —Meek Estate c/o F. H. Tibbetts, engr., Alaska Commercial Bldg., San Francisco, (a) constructing irrigation and drainage ditches, 7,500 ft. lateral 2, 5,800 cu.yd. earthwork, 4,600 ft. upper main canal 7,875 cu.yd. excav., 5,100 ft. lower main canal 2,350 cu.yd. excav., 1,400 ft. drain H, 1,575 cu.yd. excav. (b) 10,000 ft. main drainage canal to be cleaned, etc., from D. McDonald, P. O. Box 170, Sacramento, (a) $0.16 per cu.yd.; J. Phillips, Sacramento, (b) $0.12. Noted Nov. 29.

CONTRACTS AWARDED

Ia., Carroll—Carroll and Greene Counties, Joint D.D. 86 in Carroll Co. and 150 in Greene Co., 8,600 lin.ft. open ditch, 40,000 cu.yd. excav., 76,370 lin.ft. 6-36 in. tile, labor to Jacobsen & Martinson, Nevada, tile material to Lake View Tile Co., Lake View.

Streets and Roads

PROPOSED WORK

N. Y., Albany—Takes bids after Jan. 1, constructing 3 mi. Hackett Blvd., 90 ft., asphalt or concrete, $500,000; laying trolley track, curbing, sidewalks and 18 ft. paving 1 mi. Western Ave., 35 ft., asphalt or concrete, $50,000; grading, opening and paving 2.5 mi. North Pearl St., 62 ft., vitr. brick, granite block, asphalt or concrete, $250,000; laying sidewalks, curbing, lights and paving 2.9 mi. Madison Ave., 68 ft., asphalt or concrete, $300,000. J. G. Brennan, City Hall, engr.

N. Y., Albion — Orleans Co. plans constructing 1½ mi. road from Millville to Brick Schoolhouse Corners, $35,000, 2½ mi. road from West Barre to Maple St., 18 ft., $75,000; 2 mi. road from Village of Clarendon to Dowds Corners, 16 ft., $65,000; 1¾ mi. road in town of Yates, $35,000; 1½ mi. road from Carlton to Gaines, $45,000. H. Waldo, Albion, co. engr.

N. Y., Waterloo—Plans paving 11 streets, ¾ mi. bituminous macadam, various widths. $28,000. Will mature in spring. Engineer's name withheld.

Pa., Greensburg—Westmoreland Co. Bd. Comrs., plans 5,000 ft. concrete surface on Mt. Pleasant-Iron Bridge Rd., 16 ft. $30,000. N. M. Muse Eng. Co., Court House, engrs.

Pa., Hastings—Cambria Co. (Ebensburg) soon takes bids constructing 2,000 ft. 4th Ave., 20 ft., here, brick on concrete. $30,000. H. F. Dorr, Trust Bldg., Ebensburg, engr.

Pa., New Castle—Having plans prepared grading, curbing and paving 3,000 ft. Lutton St., 20 ft. brick on concrete. $45,000. F. F. Miller, City Hall, engr.

N. C., Old Fort—See "Industrial Works."

Fla., Fort Lauderdale—Plans election to vote on $100,000 bonds street improvements, etc. H. C. Davis, Fort Lauderdale, engr.

Miss., Greenwood — Making preliminary plans grading, surfacing, etc., Church, Mississippi, George and Market Sts.. $135,000. W. S. Hawkins, city engr.

Miss., Vicksburg—Warren Co. sold $300,000 bonds to complete county highways.

La., Monroe — Making preliminary surveys for 150 mi. paving in Morehouse Parish, to be paid for with State and Federal Aid funds, as well as local assesments. L. White, Monroe, engr.

Ky., Carrolton—Carroll Co. sold $51,000 bonds for road work and bridges.

O., Cincinnati—Hamilton Co. plans grading and paving 19,300 sq.yd. Mullen Rd., waterbound macadam. $31,726. E. A. Gast, Court House, co. surv.

O., Youngstown — Plans paving 1½ mi. Glenwood, 2nd, Imperial, East Silliman and Rosedale Sts., brick and asphalt, $44,643; repaving and resurfacing 1¾ mi. Chapel Pl., Market, Champion, Holmes and Caledonia Sts., $26,500. Will mature in spring. G. F. Turner, City Bldg., engr.

Mich., Detroit—Plans being prepared paving with 3½ in. sheet asphalt on 8 in. concrete 5,660 sq.yd. Savannah Ave. $28,330, 1,930 sq.yd. LeMay Ave. $9,800, 1,660 sq.yd. Lelans St. $8,280, 9,800 sq.yd. Log Cabin Ave. $49,020; grading and paving with one course 6 in. concrete 4,080 sq.yd. (3 alleys) $10,190. G. Jerome, city engr.

Ill., Cicero—Plans grading and surfacing with concrete or brick, 5,300 ft. 50th Ave. $52,000 L. Mongrieg, city engr.

Ill., Deerfield—Plans macadam paving in Brier Wood Subdivision. $25,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Elizabeth—Plans concrete paving. $40,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Farmington — Making plans paving various streets, vibrolithic and brick. F. M. Connolly, 432 Peoples Trust Bldg., Galesburg, engr.

Ill., Palatine — Takes bids in January concrete paving Chicago and Colfax Sts. $130,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Park Ridge—Plans concrete paving North Park Ave. $25,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Park Ridge—Takes bids in January concrete paving in Mackentosh Subdivision. $170,000. Consoer Eng. Co., 140 South Dearborn St., Chicago, engrs.

Ill., Urbana—Takes bids in about 60 days 7 in. concrete paving Church, Busey, Orchard and Hill Sts., 26 ft., $40,000; in 3 or 4 months for Poplar St., $30,000; next spring for West Main St., 32-35 ft., $30,000, and Walnut St., 24 ft., $20,000.

Wisconsin—Following are county appropriations for road work during 1924. Polk Co. $97,791, C. W. Nystrom, Balsam Lake, comr.; Waupaca Co. $144,250, J. Huffcut, Waupaca, comr.; Washburn Co. $30,558, J. R. Spooner, Shell Lake, comr.; Sheboygan Co. $150,000 for concrete pavement to be met with Federal aid on Trunk Highway 17, G. W. Ubbelohde, Sheboygan, comr.; Douglas Co. $152,505, C. Hanson, Superior, comr.

Wisconsin—Following are county appropriations for road construction during 1924. Trempealeau Co. $194,747, E. F. Rotering, Arcadia, comr.; Fond du Lac Co. $699,620, G. Treleven, Fond du Lac, comr.; Portage Co. $71,592, T. E. Cauley, Stevens Point, comr.

Wisconsin—Following are county appropriations for road work, etc., during 1924. Barron Co. $214,920 incl. graveling roads and machinery, E. Gleason, Barron, comr.; Vernon Co. $156,322, A. Ristow, Viroqua, comr.; Pierce Co. $92,185, C. F. Kenall, Ellsworth, comr.; Kenosha Co. $164,147, J. F. Herzog, Kenosha, comr.; Shawano Co. $200,966, W. F. Meyer, Shawano, comr.; Green Lake Co. $157,985, D. C. Williams, Green Lake, comr.; Richland Co. $149,077, A. V. Robinson, Richland Center, comr.; Lafayette Co. $164,773, G. H. Priestley, Darlington, comr.; Milwaukee Co. $431,751, W. F. Cavanaugh, Milwaukee, comr.; Crawford Co. $92,678, J. N. Campbell, Bell Center, comr.; Winnebago Co. $343,185, J. Binning, Oshkosh, comr.; Wuashara Co. $34,175, F. Grimm, Wautoma, comr.; Dunn Co. $88,896, F. Stewart, Menomonie, comr.; Pepin Co. $50,221, G. Goss, Durand, comr.; Adams Co. $25,098, J. A. McGregor, Friendship, comr.; Price Co. $87,792, B. M. Griffin, Phillips, comr.; Oconto Co. $138,247, E. W. McAllister, Oconto, comr.; Walworth Co. $433,332, H. J. Peters, Elkhorn, comr.; Marathon Co. $144,062, J. H. Vogt, Wausau, comr.; Bayfield Co. $58,471, J. Friberg, Washburn, comr.; Taylor Co. $83,052, C. Kelnhofer, Medford, comr.; Marquette Co. $35,500, H. Schmitz, Montello, comr.; Grant Co. $229,057, H. Mink, Lancaster, comr.; Calumet Co. $67,638, J. A. Gillis, Chilton, comr.; Iowa Co. $70,768, C. Wonn, Dodgeville, comr.; Jackson Co. $115,015, O. Overlien, Black River Falls, comr.; Marinette Co. $171,817, incl. state aid road and bridge construction, A. Eklund, Marinette, comr.; Dane Co. $100,000 gravel road surface treatment with tar, J. R. Caldwell, Madison, comr.; Chippewa Co. $178,672, P. O. Lokrantz, Chippewa Falls, comr.; Manitowoc Co. $130,401, J. Connell, Manitowoc, comr.; Racine Co. $364,728, W. A. Bechthold, Racine, comr.; Rock Co. $247,347, C. E. Moore, Janesville, comr.; Ozaukee Co. $255,000 construction 8 mi. road from Milwaukee Co. line on Highway 57 to north end of city of Cedarburg, also $100,000 for gravel roads through Thiensville, Belgium, Lake Church, Holy Cross, Waubeka and Decada connecting with Trunk Highways 57 and 17, J. Ubbink, Port Washington, comr.; Portage Co. $21,000 for trunk highways and aiding local units of government in this work, also $24,000 to aid construction of two federal aid projects, T. E. Cauley, Stevens Point, comr.; Monroe Co. $368,206, C. Millard, Sparta, comr.; Clark Co. $125,262, O. J. Weyhmiller, Neillsville, comr.; Lincoln Co. $141,301, H. H. Kuehling, Merrill, comr.; Sauk Co. $194,613, W. Halbersleben, Baraboo, comr.

Wisconsin — State Hy. Comn., Madison, selected following federal aid projects for construction during 1924. Div. 1—graveling Portage-Kilbourn Rd., $200,000, Columbia Co., grading and culverting 1 mi. Sumpter Hill, $30,000, grading, etc., 1 mi. Pointer Rock, $25,000, Sauk Co., grading and culverting 6 mi. road on Green-Dane Co. line, $40,000, A. L. Hambrecht, Madison, div. engr.; Div. 2—grading and culverting 9½ mi. Lisbon-Pewaukee Rd., $75,000, Waukesha Co., grading and building structures preparatory to widening narrow concrete road Trunk Highway 15, Fond du Lac Co., grading and paving 1½ mi. North Fond du Lac Rd. to Washington Co. line, $55,000, Waukesha Co., grading and culverting 3 mi. Menomonee Falls-Milwaukee Co. line Rd. on South Fond du Lac Rd., $35,000, C. R. Weymouth, 208 Stephenson Bldg., Milwaukee, div. engr.; Div. 3—McCarty's Crossing separation, $68,000, Outagamie Co., O. C. Rollman, Green Bay, div. engr.; Div. 5—grading Project 340 from end of Winona Bridge to Junction with Highway 25, $85,000, T. M. Reynolds, La Crosse, div. engr.; Div. 6—grading and surfacing Menomonie-Knap Rd., $80,000, Dunn Co., grading and gravel surfacing Trunk Highway 16, in Chippewa Co. $65,000, Dunn Co., $50,000, H. W. Vroman, Eau Claire, div. engr.; Div. 7—grading and surfacing Pelican-Monico Rd., Oneida Co., $20,000, 2 mi. gravel surfacing near Woodruff, $60,000, F. M. Sergeant, Rhinelander div. engr.; Div. 8—grading, culverting and graveling road north of Spooner, $75,000, Washburn Co., opening road from Ino as far easterly toward Ashland Co. line as possible, also taking in relocation from Beloit north to said east and west road, J. R. McLean, Superior, div. engr.; Div. 9—grading and gravel surfacing 4 mi. road through Leslie from Graebers Hill toward Platteville, Grant Co., grading new road east and west of Gratiot, $30,000, Lafayette Co. T. W. Reilly, Lancaster, div. engr.

Wis., Eau Claire — Having preliminary plans prepared concrete paving 2 mi. various streets. $50,000. J. T. Hurd, city engr.

Wis., Milwaukee — Milwaukee Co. has $390,000 available for rein.-con. roadwork during 1924. Wisconsin Hy. Comn., Madison, engrs.

Streets and Roads (Continued)

Ia., Shenandoah—Plans 48 blocks additional paving during 1924. $125,000. J. E. Lewis, clk.

Mo., St. Louis—Bd. Pub. Serv. and Citizens Bond Issue Supervisory Com. approved $25,000 bonds for surveys street widenings, $270,000 bonds paving and repaving general thoroughfares, incl. paving Watson Rd., repaving Lindell Blvd. and Easton Ave. W. W. Horner, city engr.

Mo., St. Louis—Soon takes bids grading, curbing, guttering and surfacing 4,050 sq.yd. Gasconade and Wyoming Sts., bitulithic on concrete, $22,500; 1,325 sq.yd. Spring St., willite or bitulithic, $10,000; 7,120 sq.yd. 10th and Loughborough Sts., willite on concrete, $35,350. W. W. Horner, 300 City Hall, engr. for above projects; grading and surfacing 13,000 sq.yd. rein.-con. roads at Training School for Feeble Minded, Scott Farm, $45,250, L. R. Bowen, 301 City Hall, engr.

Tex., Alpine—Brewster Co. soon takes bids grading, gravel surfacing and bridging 15.5 mi. road between Altida and Marathon, 16 ft. $87,000. A. L. White, co. engr.

Tex., Anderson—Grimes Co. election Dec. 22, to vote on $200,000 bonds for roads in Iola Rd. Dist. and $175,000 bonds Bedias Rd. Dist. R. M. West. co. judge.

Tex., Crockett—Houston Co. election Dec. 28, to vote on $250,000 bonds, grading and gravel surfacing Grapeland Rd. Dist. C. H. Milburn, co. engr.

Tex., Decatur—Wise Co. voted $75,000 bonds grading and gravel surfacing Bridgeport-Sandy Creek Rd., Dist. 3, 16 ft. H. R. Smith, co. engr. Noted Nov. 15.

Tex., Harrold — Harrold Precinct, Wilbarger Co., plans election soon to vote on $150,000 bonds for 8 mi. Colorado Gulf Highway from here to Electra. J. B. Nabors, Vernon, co. engr.

Tex., La Grange—Fayette Co. rejected bids grading, gravel surfacing, etc. 5.84 mi. State Highway 3-B. Federal Aid Project 285. $99,822. Will readvertise C. A. Schlafli, co. engr. Noted Nov. 8.

Tex., Port Arthur — Voted $1,000,000 bonds, paving, water improvements, sewers, etc. M. C. Erwin, city engr. Noted Nov. 1.

Tex., Rosebud Falls — Plans election middle December to vote on $50,000 bonds paving Ave. C in business section, brick, concrete or bituminous. Address J. Malcek, Rosebud. Engineer not announced.

Tex., San Antonio—Voted $450,000 bonds permanent street paving, also $350,000 widening certain streets. I. Ewig, city engr. Noted Oct. 11.

Tex., Seguin—Quadalupe Co. election Dec. 18, to vote on $24,000 bonds surfacing road already graded and gravelled with bituminous topping 15.2 mi. State Highway 3, 18 ft. Total cost $100,000. State and Federal Aid granted.

Tex., Seymour—Baylor Co. election Dec. 28, to vote on $500,000 bonds hard surfacing State Highways 28 and 30 and lateral roads. Total cost $1,250,000. E. Tibbetts, co. judge.

Tex., Taylor—Williamson Co. voted $300,000 bonds hard surfacing in Precinct 4. Address County Judge. Engineer not selected. Noted Nov. 8.

Okla., Elk City—Beekman Co., election Dec. 20, to vote on $300,000 bonds for roads and bridges.

Okla., Lindsay — Surveys being made grading and paving 6 blocks Main St., 75 ft. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Ponca City — Plans grading and paving 5 blocks South 2nd Ave., 5,060 sq.yd. vertical fibre brick, 3,100 lin.ft. curbing, 3,100 lin.ft. guttering, et. $26,000. E. A. Jones, Ponca City, engr.

Okla., Ponca — City plans grading and paving 5 blocks Highland Ave., 5,200 sq.yd. vertical fibre brick, 3,180 lin.ft. curbing, 3,180 lin.ft. curbing, 1,050 cu.yd. excav. $28,000. E. A. Jones, Ponca City, engr.

Okla., Sapulpa—Creek Co. election Jan. 4, to vote on $700,000 bonds hard surfacing roads.

Wash., Davenport—Plans concrete paving Morgan St. from 4th to 8th Sts. $25,118.

Wash., Seattle — Comrs. King Co. plan paving 2 mi. Kent-Des Moines Rd., 7 in. concrete. $60,000. T R. Beeman, co. engr.

California—State Hy. Dept., Sacramento, plans regrading and resurfacing with crushed rock, 11 mi. road between Sportsmans Hall and American River Crossing at Riverton, El Dorado Co.; widening to 20 ft., laying 5 or 6 in. cement concrete on pavement on present 15 ft. slab, 16 mi. road from south boundary of Ventura Co. to Camarillo; 20 mi. road from north boundary of San Mateo Co. to Redwood City, $15,000 appropriated for survey, paving 2 mi. road from south boundary of Sacramento Co. to railroad crossing at Galt; widening to 20 ft., laying 5 or 6 in. concrete pavement on present 15 slab on 11.65 mi. road between Sherman Blvd. and Russell Ranch, Los Angeles Co.; construct 7 mi. road between Placerville City limits and Sportsmans Hall, El Dorado Co. R. M. Morton, state highway engr.

Calif., Fresno—W. F. Chandler, c/o A. Jensen, engr. Rowell Bldg., having plans prepared paving sewers and water mains, etc., in Chandler Residential Tract. To exceed $75,000.

Calif., Los Angeles — Plans improving Vernon Ave., 166,477 sq.ft. 6 in. concrete paving; Lahme Ave. 173,988 sq.ft. asphaltic concrete, 30,362 sq.ft. walks, etc. A. C. Hauser, city engr.

Calif. Los Angeles—Los Angeles Co. had plans prepared improving 1st Ave. between College and Crawford St., Co. Rd. Impvt. No. 46, 8.855 sq.ft. walks 6,095 sq.ft. gutter, 6,402 sq.yd. concrete pavement, etc.

Calif., Oakland—City had plans prepared improving Castro St. between 1st and 7th Sts., 62,936 sq.ft. grading, 2,054 lin.ft .concrete curbing, 60,317 sq.ft. 6 in. Portland cement concrete base, 2 in. Warrenite bitulithic surface. W. W. Harmon, city engr.

Calif., Riverside—Riverside Co. had plans prepared for north and south connections between State Highway and County highways about ½ mi. west of Whitewater station, 57,050 sq.ft. gravel base, 6 in. thick, 57,050 sq.ft. asphaltic surfacing, etc. A. C. Fulmore, co. surv.

Calif., Sacramento—See "Railways."

Calif., San Francisco—Plans paving Piers No. 19 and No. 25. $50,000. F. G. White, c/o State Bd. Harbor Comrs., Ferry Bldg., ch. engr.

Calif., San Francisco—Plans grading and paving Van Ness Ave. from Market to Howard Sts., $200,000. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — City had plans prepared improving Balou Ave. between Phelps and Rankin Sts., 5,300 cu.yd. cut, 2,700 lin.ft. concrete curb, 2,375 sq.ft. artificial stone walks, 72,900 sq.ft. asphaltic concrete. $30,225. M. M. O'Shaughnessy, city engr.

Calif., San Luis Obispo—City plans paving Higuera, Marsh and Ida Sts., 3½ in. asphaltic concrete base with 1½ in. Warrenite surface. $25,000 or more. W. B. Roselip, city engr.

Calif., San Luis Obispo—San Luis Obispo Co. having plans prepared grading and graveling Avila Rd. between Paso Robles and State Highway. To exceed $25,000. W. Black, co. surv.

Calif., San Rafael — Marin Co. appropriated $25,000 to widen Willow Camp Rd., (Stinson Beach Grade), from Big Lagoon to Stinson Beach.

Calif., Visalia—Tulare Co. having surveys made 8½ mi. road from Doyle Springs to Mountain-Summer Home Resort. $35,000 to $40,000. L. A. Moye, co. surv.

BIDS DESIRED

Massachusetts—Dec. 18, by Dept. Pub. Wks., Div. of Highways, rein.-con., paving 15,770 ft. highway, in Norwood and Walpole, to exceed $200,000, 12.712 ft. in Lenox, to exceed $160,000; bituminous macadam paving 5,000 ft. in Plymouth, to exceed $40,000, widening (portion) and resurfacing with bituminous concrete, 34,237 ft. in Nantucket, to exceed $125,000. W. F. Williams, ch. engr.

Connecticut—Dec. 20, by State Hy. Comn., Hartford, paving highways in Cornwall and Kent, Groton and Stonington, Mansfield, Pomeret, Sharon, Shelton, Southbury and Suffield, rein.-con., waterbound macadam and bituminous macadam; also 93 ft. 4 in. steel truss bridge over Pomeraug River in Southbury. J. A. Macdonald, comr.; adv. E. N.-R. Dec. 13.

N. Y., Buffalo—Dec. 21, by Commissioner Pub. Wks., Municipal Bldg., paving Barnard St., Stockbridge Ave., Wilbury and Darien Places, vitr. brick or asphalt on 6 in. concrete. To exceed $25,000. C. E. P. Babcock, Municipal Bldg., engr.

N. Y., New York—Dec. 18, by J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving 1st Ave. and West Bway., granite block on concrete.

N. Y., New York—Dec. 19, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing, laying sidewalks, etc., on Reservoir Pl.; grading for width of 60 ft. centrally located, etc., Neill Ave. from Bronxdale to Matthews Aves., and for its full width from Matthews to Paulding Aves.; grading, etc., Tyndall Ave.; sheet asphalt repaving East 188th St.

N. Y., New York — Dec. 20, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., reconstructing pavement, curbs and headers on south clearance roadway alongside Manhattan approach of Williamsburg bridge.

N. Y., St. George — Dec. 18, by J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving Scribner Ave., napped granite block; Winter Ave., bituminous macadam; temporary sanitary sewer in Perry Ave.

Pa., Ebensburg—Dec. 19, by Comrs. Cambria Co., reconstructing 15,000 ft. Blandburg Rd., Reade Twp., vitr. brick block on concrete, or one course rein.-con. A. B. Curry, 908-909 Johnstown Trust Bldg., Johnstown, engr.

Virginia—Dec. 28, at office State Hy. Dept., Richmond, 413 North 10th St., bituminous macadam surfacing 3 mi. Project S-146-C, Montgomery Co.; concrete surfacing 12.6 mi. Project S-279, Norfolk Co.; grading, etc. 1.16 mi. Project S-293-C, Giles Co.; concrete surfacing (alternate 4 in. gravel) 5.18 mi. Project F-295-C, Henrico Co.; gravel surfacing 13 mi. Project S-322, New Kent Co. H. G. Shirley, chn.; adv. E. N.-R. Dec. 13.

W. Va., Wheeling—Dec. 28, by Comrs. Greene Co., reconstructing 12,781, 5,950, and 11,050 lin. ft. roads, rein.-con. or broken stone base with asphalt top cement wearing surface, 16 ft. wide, in Center Twp. T. P. Dinsmore, co. engr.

S. C., Beaufort—Dec. 27, by Beaufort Co., Court House, constructing (exclusive of surfacing) 7.02 mi. State Route 1, Federal Aid Project 200, 70,600 cu.yd. excav., etc. W. C. Cathey, Scovil Bldg., Orangeburg, engr.

Fla., Tampa—Dec. 21, by Comrs. Hillsborough Co. for 20,250, 13,000, and 11,400 sq.yd. 2½ in. asphalt paving blocks, $50,000, $30,000 and $28,000 respectively.

Alabama — Jan. 4, by Highway Comn., Montgomery, grading and bitulithic paving 12 mi. Birmingham-Decatur Highway, 20 ft., $100,000. State Highway Dept., engrs.

Miss., Vicksburg—Jan. 7, by Mayor and Bd. Aldermen, for curbing and 61,000 sq.yd. paving. Grading will be done by City. Total est. cost $225,000. F. M. Garvey, city engr.

Kentucky — Jan. 8, by State Hy. Dept., Frankfort, improving various roads, (**F. A. P. means Federal Aid Project, S. P. State Project**), grading and surfacing with rein.-con., bituminous concrete (concrete base) or rock asphalt (concrete base) 3.747 mi. Louisville-Bardstown Rd., 20 ft., F. A. P. 50, Sect. B, Jefferson Co.; with gravel, waterbound macadam, or waterbound macadam treated 15.13 mi. Owenton-Georgetown Rd., 16 ft., S. P. 49, Sect. A, Scott Co.; with waterbound macadam, creek gravel or waterbound macadam surface treated 7.623 mi. Owingsville-Carlisle Rd., 14 ft., S. P. 61, Sect. A, Bath Co.; surfacing with bituminous macadam, waterbound macadam or waterbound macadam surface treated 5.809 mi. Williamsburg-Jellico Rd., 16 ft., F. A. P. 23, Sect. D, Whitley Co., also grading ½ mi. same road; with brick, rein.-con. or sheet asphalt on concrete base 1.972 mi., 20 and 38 ft., S. P. 17, Sect. A, Franklin Co.; grading 3.167 mi. Harlin-Pineville Rd., 24 and 28 ft., S. P. 6, Sect. C, Harlan Co. J. S. Boggs, state highway engr. Noted Dec. 6.

O., Toledo—Dec. 20, by Lucas Co., Court House, grading, curbing and concrete paving 1.08 mi. Washington Twp. Stone Rd., Impvt. 223, Washington Twp.; paving 1.5 mi. Howard Rd., Jerusalem Twp., bituminous macadam and concrete; curbing and rein.-con. paving 630 ft. Evans St., Washington Twp.; rein.-con. paving 0.68 mi. Richards Rd., Adams Twp.; curbing and concrete paving 645 ft. Macomber St., Washington Twp. A. E. Schmitt, clk.

Michigan—Jan. 15, by State Hy. Dept., Lansing, improving 0.508 mi. State Trunk Line Rd. 46-26, Port Sanilac, 6,254 sq.yd. asphalt, concrete or bituminous concrete, etc. F. F. Rogers, comr.

Ill., Galesburg — Dec. 19, by Bd. Local Impvts., grading, curbing, paving, etc., Grand Ave., 7,620 cu.yd. grading, 10,198 lin.ft. concrete curb and gutter, 18,004 sq.yd. brick pavement on 4 in. concrete with asphalt filler, etc. A. L. Richey, City Hall, engr.

Ia., La Porte City—Dec. 18 curbing, paving, etc., 23 blocks. H. R. Green Co., Bever Bldg., Cedar Rapids, engrs.

Tex., Corpus Christi—Dec. 21, by H. R. Sutherland, judge Nueces Co., grading and concrete surfacing 10.09 mi. State Highway 12, Federal Aid Project 340, 18 ft. $335,000. C. E. Cocke, co. engr. Noted Nov. 15.

Streets and Roads (Continued)

Tex., Decatur—Dec. 21, by S. M. Ward, judge Wise Co., hauling and placing 33,125 cu.yd. gravel surfacing on State Highway 2. $52,000. Gravel to be furnished by county $26,500. H. R. Smith, co. engr.

Tex., La Grange—Dec. 21, by J. P. Ehlinger, judge Fayette Co. grading and gravel surfacing 5.84 mi. State Highway 3 B, Federal Aid Project 285, 18 ft. $99,822. A. Schlafli, co. engr.

Tex., Tyler—Smith Co. taking bids grading road from Sabine River Bridge to Van Zandt Co. line, 6½ acres clearing, 4 acres grubbing, 12,000 yd. road excav., 1,200 yd. borrow, 4,000 lb. rein.-con. steel. $28,000. Gravel surfacing will be done later. D. K. Caldwell, Tyler, co. engr.

Okla., Marlow—Dec. 17, by G. L. Orr, city clk., grading and paving Bway. Ave., 10,800 sq.yd. concrete, 4,000 cu.yd. excav. $72,300. Former bids rejected. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Nov. 22.

Calif., Los Angeles—Supervs. Los Angeles Co. taking bids improving Ricker Ave., 9,997 sq.ft. concrete gutter, 4,752 lin.ft. curbing, 17,243 sq.ft. walks, 62,700 sq.ft. oil and screenings surface, including shaping.

Calif., San Bruno—City Trustees taking bids grading, paving, sewers, etc., Elm, Acacia, Cypress, etc., in Huntington Park, 120,000 sq.ft. asphaltic concrete base with Warrenite surface. G. A. Kneese, Courthouse, Redwood City, engr. Noted Nov. 15.

Calif., San Francisco—Dec. 19, by Bd. Pub. Wks., improving Wilde Ave. between Delta and San Bruno Aves., 7,100 cu.yd. cut, 1,035 cu.yd. fill, 500 lin.ft. 10 in. culverts, 4,388 lin.ft. concrete curbing, 19,200 sq.ft. concrete and 71,225 sq.ft. asphalt concrete pavement. To exceed $35,000. M. M. O'Shaughnessy, city engr. Noted Oct. 4.

Calif., San Diego — Dec. 24, by A. H. Wright, city clk., improving 1st, 2nd and 3rd Sts., 31,200 sq.ft. 4 in. Portland cement concrete base, 1 in. binder and 1½ in. asphalt wearing surface, 173,086 sq.ft. 3 in. bituminous base, 1½ asphaltic concrete wearing surface, 99,451 sq.ft. 2½ in. bituminous base, 1½ in. asphaltic concrete wearing surface, etc. F. A. Rhodes, city engr. Noted Sept. 20.

Calif., Sonoma — Dec. 31, by State Hy. Dept., Sacramento, improving road between Beltane and Schellville, surfacing 7.2 mi. with gravel or broken stone, paving 4.3 mi. with Portland cement concrete, and grading entire project. G. M. Morton, state highway engr.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Dec. 5, paving and repaving Glenwood Rd. and 87th St., asphalt, from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., $34,051 and $9,508 respectively. Noted Nov. 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., Dec. 3, curbing, laying sidewalks, etc., (1) Howland St.; paving with permanent sheet asphalt (2) Howland St. (3) Darvall St. (4) 87th Ave. (5) 90th Rd.; grading, curbing, laying sidewalks, etc. (6) Darvall St. (7) Rene Pl. (8) 85th Dr. (9) 87th Ave. (10) 90th Rd.; regrading (11) North Jane St.; grading, curbing, paving and laying sidewalks (12) 87th Rd.; receiving basins and asphalt paving (13) 44th St.; grading, curbing, flagging, paving, etc., (14) 132nd St. from Welsh Bros. Contg. Co., 32 Queens St., Astoria, (1) $6,505 (11) $14,597; Sicilian Asphalt Paving Co., 41 Park Row, New York, (2) $26,180 (3) $12,623 (4) $6,663 (5) $16,458 (7) $9,394 (8) $12,387 (13) $29,915 (14) $865; R. A. Hess, Inc., 14 Queens St., Astoria, (6) $6,309; H. J. Mullin Contg. Co., Jamaica Ave. and 144th St., Jamaica, (9) $3,610 (10) $5,127; W. P. McDonald Constr. Co., 17 West 42nd St., New York, (12) $7,655. Noted Nov. 29.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sheet asphalt repaving Jackson Ave., from W. J. Fitzgerald, 547 West 45th St., New York City, $347,719. Noted Dec. 6.

New Jersey — State Hy. Dept., Trenton, Dec. 5, improving 33,985 sq.yd. Netcong Canal Culvert, Morris Co., concrete, 11,388 lin.ft. rein.-con. and vitr. clay drains, concrete curbs, etc., from Crilly & Cannon, Phillipsburg, 92.18% engrs. est. ($226,717); 31,001 cu.yd. Route 16, Sect. 6 A. Bernardsville-Passaic River Rd., Morris and Somerset Counties, concrete, from D. Klockner, 1601 Nottingham Way, Trenton, 95.9% ($174,388). Noted Nov. 22.

Pa., Ebensburg — Cambria Co., Dec. 5, improving 2.104 mi. Nicktown Rd. between Belsano and Cover, Barr Twp., rein.-con. and Hillside vitr. brick, from L. Swartz, Spangler, $123,041. Noted Nov. 29.

Pa., Wilkes-Barre—F. H. Gates, city clk., paving 2,300 ft. Dagobert, Hillard, Beaumont and Reichard Sts., 24-30 ft. from Goeringer Constr. Co., Wilkes-Barre, asphalt $4.50, brick $6, curb $1.75. Noted Nov. 29.

North Carolina — State Hy. Comn., Raleigh, improving roads (**S. P. means State Project**) grading and asphaltic paving 4.65 mi. S. P. 666, Richmond, Co., from G. R. Martin & Co., Salisbury, $150,038; grading and concrete or asphaltic paving 7.32 mi. S. P. 457-B, Orange Co., from L. L. Tindall, Waterford, Wis., $230,338; concrete or asphaltic paving 5.6 mi. S. P. 852, McDowell Co., from A. J. Wardrep, Holsten Bank Bldg., Knoxville, Tenn., $200,949, 8.13 mi. S. P. 318, Brunswick Co., from F. J. McGuire, Paul-Gale-G. Bldg., Norfolk, Va., $98,997, 2.01 mi. S. P. 557, Montgomery Co., from W. F. Bowe, Jr., 541 Broad St., Augusta, Ga., $63,187; grading and sand clay surfacing 16.34 mi. S. P. 513, Caswell Co., from N. L. Teer, Durham $115,552; grading and sand asphalt paving 13.12 mi. S. P. 275, Sampson Co., from Highway Eng. & Constr. Co., Selbyville, Del., $266,038; grading 5.03 mi. S. P. 648-A, Lincoln Co., from G. Ginn, Inc., Gastonia, $27,580; paving with sand asphalt 4.95 mi. S. P. 571, Moore Co., from West Constr. Co., Vol. Life Bldg., Chattanooga, Tenn., $81,679; grading and bringing 7.02 mi. S. P. 952-B, Jackson Co., from Piedmont Constr. Co., Selica, $60,031; grading and topsoiling 6.83 mi. S. P. 750-B, Stokes Co. and grading 9.88 mi. S. P. 646-A, Lincoln Co., from J. F. Mulligan Constr. Co., North Wilkesboro, $111,128 and $32,416 respectively; grading and topsoiling 16.97 mi. S. P. 912, Cherokee Co. and grading 13.4 mi. S. P. 791-A, Yadkin Co., from W. E. Graham, Mt. Ulla, $399,048 and $76,366 respectively. Noted Nov. 15.

Tex., Dallas — Paving following streets 9,300 sq.yd. Waverly, 15,500 sq.yd. Walter, 14,500 sq.yd. Henderson, from McMillan to Willis, and 5,880 sq.yd. Henderson, from Junius to East Side, 7,620 sq.yd. Alamo, 14,120 sq.yd. Cockrell, 12,110 sq.yd. 8th, 2,720 sq.yd. Colonial, 415 sq.yd. Hord, 4,350 sq.yd. 4th, 8,200 sq.yd. Oram, 6,170 sq.yd. 2nd, 1,750 sq.yd. McKinney, 17,497 sq.yd. Oakland, 14,300 sq.yd. 9th, 4,635 sq.yd. Madison and 11,850 sq.yd. Fitzhugh, from Smith Bros., Sumpter Bldg., asphalt $2.95 per sq.yd., brick, $3.30; Central Bitulithic Co., Praetorian Bldg., bitulithic $2.95, brick $3.70; Uvalde Paving Co., Insurance Bldg., Uvalde rock asphalt $3.04, lower grade rock asphalt $2.89; Fuller Constr. Co., Amer. Exch. Natl. Bank Bldg., willite $3.02.

Tex., Jasper—Jasper Co. grading, gravel surfacing and bridging 6.4 mi. State Highway 63, 12 ft. and gravel surfacing 4.24 mi. State Highway 36, Federal Aid Project 93, 12 ft., from R. B. Suarks, Gaston Bldg., $47,353 and $9,381 respectively. Gravel on both to be furnished by county. Noted Nov. 8.

Tex., Vernon—Wilbarger Co. rein.-con. surfacing 38,255 sq.yd. State Highway 5, etc., from J. P. Foty, Vernon, $105,508. Noted Nov. 15.

Okla., Oilton—Grading and paving Main St., 14,165 sq.yd. 6 in. concrete, from H. L. Cannody Co., Tulsa, $58,855. Noted Oct. 25.

Wash., Seattle—Bd. Pub. Wks., Nov. 30, grading and paving Youngstown Pl. et al., from Goetz & Brennan, Seaboard Bldg., 30,815 sq.yd. 8 in. concrete $2.38, 18,730 sq.yd. 7 in. concrete $2.13, 1,224 lin.ft. asphaltic concrete curbing $0.65, 12,800 lin. ft. concrete curbing $0.35, 13,600 ft. special concrete curbing $0.30, etc., total $320,004 (clay) and $319,525 (concrete).

California—State Hy. Comn., Sacramento, grading and gravel surfacing, 3.93 mi. Federal Aid Project 137, between Westmoreland and a point 4 mi. west, Sect. A, Route 26, Div. 8, Imperial Co., from Pioneer Transfer Co., Calexico, 16,000 cu.yd. embankment, $0.45, 7,000 cu.yd. gravel or stone surfacing $4.40, total $38,000. Engrs. est. $38,800. Noted Nov. 15.

California—State Hy. Comn., Sacramento concrete paving 9.95 mi. Redding-Bayha Rd., Shasta Co., Federal Aid Project 140 69,000 cu.yd. embankment, 33,000 cu.yd. overhaul, 52,150 lin.ft subgrade 22,220 cu.yd. Class A concrete pavement, etc., from Frederickson & Shannon, Cory Bldg., Fresno, 398,808. Noted Nov. 22.

Calif., Colton — Improving streets, from Hall-Johnson, Box 51, Lynwood, C St., 191,000 sq.ft. 2 in. course Willite pavement $0.224, 1,752 ft. curb $0.56, 1,450 sq.ft. walks $0.18; South 8th St., 84,500 4 in. Willite pavement $0.222, 3,630 ft. 5 in. Willite pavement $0.253, 26,538 ft. 2 in. Willite pavement $0.125, 1,500 sq.ft. walks $0.18, etc.

Calif., Hawthorne—Improving Raymond and Hawthorne Aves., 96,000 sq.ft. 2½ in. asphalt base with 1½ in. Willite surface, 310,000 sq.ft. 4 in. asphalt base, 2 in. Willite surface, grading, curbs, gutters, etc., from Oswald Bros., 366 East 58th St., Los Angeles, $213,500.

Calif., Los Angeles — Los Angeles Co. concrete pavement, 22 ft. wide, 6 in. to 8 in. thick, etc., from G. H. Oswald, 366 East 58th St., Los Angeles, $41,000. Noted Nov. 15.

Que., Montreal—Grading Sherbrooke St. from Duquesne to Viau Sts., from F. Lapan, 601 Lacordaire St., $87,960; 6,500 sq.yd. 3 in. asphalt pavements on Marquette St. from Des Carrieres Rd. to Drucourt St., from Quinlan, Robertson & Janin Ltd., 50 Notre Dame St. $33,805; concrete sidewalks on Rosemount Blvd. from Papineau to 1st Aves., and on Jarry St. from Lajeunesse to St. Dominique Sts., from Toussaint Bros., 2353 St. Denis St., $5,246 and $6,496 respectively.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing and laying sidewalks on Alstyne and Pierce Aves., grading, curbing, laying sidewalks and asphalt paving Radcliffe St., to R. A. Hess, Inc., 14 Queens St., Astoria, $16,165, $8,678 and $15,395 respectively; grading, curbing, laying sidewalks and asphalt paving Prospect Ave., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $15,500; 76th St., to C. Kurth, 9519 126th St., Richmond Hill, $8,395; 84th and 90th Sts., to J. J. O'Brien, William St., Jamaica, $5,170 and $10,199 respectively; sheet asphalt paving 76th St., 89th and 90th Aves., to Cleveland Trinidad Paving Co., Flushing $27,440, $23,324 and $20,580 respectively. Noted Dec. 6.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving Fisher Ave., bituminous macadam, to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $30,560. Noted Dec. 6.

N. Y., Troy—Bd. Contr. & Supply, paving 2nd Ave., granite block, to Troy Paving Co., 418 Gay Blvd. St., $216,332; Eaton Rd. and Sage Ave., warrenite bitulithic, to Fitzgerald Bros. Constr. Co., Inc., Proctor Bldg., $59,856. Noted Nov. 29.

Pa., Ebensburg—Comrs. Cambria Co., rein.-con. paving 12,800 lin.ft. Loretto-Chest Springs Rd., Allegheny Twp., to Owen & Plummer, Inc., Otto Bldg., Johnstown, $122,910. Noted Nov. 22.

Fla., Tavares—Lake Co., steel surfacing 10 mi. section of Rd. H. from Paisley to Crows Bluff, South Lake Special Road & Bridge Dist., to M. Lindsay, Cocoa, Fla. $25,250. Noted Nov. 15.

Fla., West Palm Beach—Palm Beach Co., paving 2 Tropical Farms, Kerns and Mapp Rds., to R. Tomasella, West Palm Beach, $28,500.

Fla., West Palm Beach—Palm Beach Co., grading, paving and oiling 8 mi. Rd. 283, "The Gap," Stuart Anne Rd. to Hopaticken, Special Road and Bridge Dist. 16, to McVey Lindsay, West Palm Beach, $30,-167; Stuart Annie Rd. from Ferry to Lake Okeechobee to M. F. Myers, West Palm Beach, $32,500. Noted Oct. 18.

Alabama—State Hy. Comn., Montgomery, grading and graveling 6.04 mi. Phil Campbell and Russellville highway, 20 ft., Federal Aid Project 135 Sect. A, Monroe Co., to Scott, Chambers & Co., West Point, Ga., $71,235; new bridge on above road, to W. M. Thompson & Co., Fayette, $17,668. Noted Dec. 6.

Ala., Birmingham—City Comrs., asphaltic concrete paving following streets: 3 blocks 8th Court St., to Morgan Hill Paving Co., Empire Bldg., $4,069; 7 blocks Bush Blvd. and 24th St., from 7th to 8th Aves., to H. N. Bowdry, 3426 Norwood Bldg., $36,529, and $10,598 respectively; 1 block 8th Ave., to Birmingham Railway Light & Power Co., $1,300.

Miss., Ashland — Graveling Federal Aid Project 90, to A. M. Perdue, Pine Bluff, Ark., 12,040 cu.yd. gravel 1 mi. haul $0.79, 99,790 units gravel ½ mi. overhaul $0.16, etc., total $26,478. Engrs. est. $25,102. Noted Nov. 22.

La., Oak Grove—Grading and graveling 6 mi. Terry-Oak Grove Rd., to A. E. Perry Highway Co., Monroe, $39,500.

Tenn., Nashville—City will construct approaches and roadway to Meridian St. Viaduct, grading, earth fills, etc., $26,000. Work will be done by city forces. W. W. Southgate, city engr.

Michigan — State Hy. Dept., Lansing, grading 9.939 mi. Federal Aid Project 82, Sect. B, Washtenaw Co., to Carpenter & Orr, Adrian, 74,113 cu.yd. earth excav., $0.55, 467 cu.yd. 1-2-4 concrete $20, 602.4

Streets and Roads (Continued)

cu.yd. 1-3-6 concrete $19, etc., total $69,811; 7.711 mi. State Trunk Line Rd. 16-3, to T. Stevenson, Saginaw, 85,951 sq.yd. sheet asphalt on black base $2.05, etc., total $180,272. Noted Nov. 22.

Michigan—State Hy. Dept., Lansing, grading and surfacing 2.901 mi. State Trunk Line Rd. 23-10, Sects. A and B, Branch Co., to Waterbury & O'Shaughnessy, Coldwater, 13,946 cu.yd. excav. $0.65, 33,978 sq.yd. 8 in. rein.-con. pavement $1.55, etc., total $65,507. Noted Dec. 6.

Ia., Clinton—Clinton Co., to McCarthy Impvt. Co., Kahl Bldg., Davenport, grading and paving 1.301 mi. Clinton-Comanche Rd., 1,718 cu.yd. excav. $0.50, 13,733 sq.yd. concrete $2.42, etc.; 14.53 mi. Lyons-Charlotte Rd., 38,370 cu.yd. excav. $0.50, 159,738 sq.yd. concrete $2.58, 36 single special and 5 double special intakes, $75 and $95 respectively. Noted Nov. 22.

Mo., Kennett—Grading and concrete surfacing 30,000 sq.yd. various streets to Regenhardt Constr. Co., Cape Girardeau, $105,000. Noted Oct. 4.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, improving Lilian Ave., 32,638 cu.yd. grading, 14,100 cu.ft. cinders and 1,000 cu. ft. macadam, etc., also Geraldine Ave., 13,090 cu.yd. grading, 7,380 cu.ft. cinders, and 500 cu.ft. macadam ,to Fruin-Colnon Constr. Co., Merchants Laclede Bldg., $22,737 and $13,168 respectively; McDonald Ave., 3,945 cu.yd. grading, 2,845 cu.ft. cinders and 500 cu.ft. macadam, also McCune Ave., 7,310 cu.yd. grading, 500 cu.ft. macadam, 8,240 cu.ft. cinders, to T. E. Cavanaugh, 6452 Oakland St., $2,999 and $5,638 respectively. Noted Dec. 6.

Tex., Denton—Paving 3 streets around Teachers College Campus, bituminous macadam, to W. M. Jagoe Co., Denton, $40,000; 4,000 ft. Boliver St., bituminous macadam, to H. Trimble, Denton, $25,000.

Okla., Fairfax—Grading and paving 9 blocks 4th St. and Maple Ave., 12,800 sq.yd. vertical fibre brick, 7,200 lin. ft. curbing, 5,000 cu.yd. earth and 150 cu.yd. rock excav., to L. R. Moran, Okmulgee, $81,282. Noted Nov. 29.

Okla., Wewoka—Grading and paving 18 blocks Okfuskey, Mikosukey and Plum Sts., 27,450 sq.yd. vertical fibre brick, 13,500 lin.ft. curbing, 10,000 cu.yd. earth and 3,000 cu.yd. rock excav., to E. E. Park, Box 622, Okmulgee, $148,277. Noted Nov. 29.

Washington—State Hy. Comn., Olympia, grading and gravel surfacing 2.5 mi. State Rd. 4, from Wilbur Hill to Clark, Lincoln Co., to M. A. Degerstrom, Payton Bldg., Spokane, $36,975. Engrs. est. $36,000. Noted Nov. 22.

Oregon—State Hy. Comn., Salem, grading 9.87 mi., Tyge Valley Dufer Sect., The Dalles, California Highway, 60 ft., to Greenwood & Dann, 500 Front St., Portland, 75,000 cu.yd. common excav. $0.37, 35,000 cu.yd. solid rock excav. $1.15, 2,170 lin.ft. 12 in. corrugated galvanized iron pipe $1.25, 840 lin ft. 18 in. $2.35 and 270 lin.ft. 24 in. $3, 20 cu.yd. Class A concrete $30, 36 cu.yd. Class B $30 and 95 cu.yd. Class C $25, etc. total $86,466. Above contract awarded subject to approval of U. S. Bureau of Pub. Rds.

Calif., El Centro—Imperial Co. grading and gravel surfacing 3 mi. road between Westmoreland and point 4 mi. west, to Pioneer Transfer Co., Calexico, $38,000.

Calif., Los Angeles—Bd. Pub. Wks., improving Figueroa St. between Manchester Ave. and 120th St., to Tryon & Brain, Tajo Bldg., $334,862. Noted Dec. 6.

Calif., Los Angeles—Supervs. Los Angeles Co., improving Slauson Ave. between Los Angeles city limits and point 5,270 ft. westerly, 15,365 cu.yd. excav., shaping 5,270 lin. ft. roadbed, 12 882 sq.yd. concrete paving, etc., to G. H. Oswald, 366 East 58th St., Los Angeles, approximately $41,000. Noted Dec. 13.

Calif., San Diego—Common Council, improving Hawthorn St. from 5th to Atlantic Sts., to California Constr. Co., Union Bldg., 102,956 sq.ft. 1½ in asphaltic concrete on 2½ bituminous $0.167, etc., total. $34,828. Noted Oct. 18.

Calif., San Diego—Improving Robinson and Pennsylvania Aves., 7th and 8th Sts., 150,387 sq.ft. 1½ in asphaltic concrete on 3 in. bituminous, etc., to Griffith Co., 25 14th St., $27,900. Noted Sept. 20.

Industrial Works

PROPOSED WORK

Mass., Worcester—Boston & Maine R.R., North Sta., Boston, plans 1 story powerhouse, concrete, at yards, here. $75,000. A. B. Corthell, ch. engr.

Conn., Hartford—Eastern Provision Co., State St., plans 2 story storage plant, etc., brick and steel, plain foundation, State St. $40,000. Golden-Storrs & Co., 1047 Main St., archts.

Conn., South Manchester — W. Dougan plans 2 story and basement dye house, brick and steel, plain foundation, Harrison St. $40,000. Engineer and architect not selected.

N. Y., Albany—Rochester Packing Co., 900 Maple St., Rochester, had plans prepared by Henschien & McLaren, 1637 Prairie Ave., Chicago, 5 story, 200 x 300 ft., rein.-con. and steel plant, plain foundation, Exchange St., here. $500,000.

N. Y., Gouverneur — Plans power plant, concrete dam, hydraulic and electric equipment, two 1,200 gal. centrifugal pumps, etc. $60,000. L. Reynolds, Geneva, engr.

Pa., Phila.—Crescent Color & Ink Co., 408 Vine St., having plans prepared by P. S. Tyre, 1511 Arch St., and takes bids about Dec. 16, 1 story and basement, 60 x 90 ft., and 2 story and basement, 30 x 60 ft. factory, rein.-con. and brick, plain foundation, 5th and Hamilton Sts.

Pa., Phila.—King Bedding Co., 21st and Ontario St., having plans prepared by P. S. Tyre, 1511 Arch St., and takes bids about Dec. 16, 2 story and basement, 50 x 80 ft. factory, rein.-con. and concrete, plain foundation, 21st and Ontario Sts. $40,000.

Pa., Phila—Packard Inc., 319 North Broad St., plans large service and sales build, Alleghany and Broad Sts. P. S. Tyre, 1511 Arch St., archt.

Pa., Pittsburgh—Rosenbaum Co., 6th and Penn Aves., having plans prepared by W. E. Snaman, Empire Bldg., 4 story and basement, 159 x 291 ft. warehouse addition, Beaver Ave. $500,000.

Pa., Williamsport — Vallamont Planing Mill Co., 1009 Market St., plans 3 or 4 story and part basement, 120 x 160 ft., steel and concrete mill, Market St. $150,000.

Md., Baltimore—Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburgh, Pa., having plans prepared by S. Deischer & Sons, engrs., Farmers Bank Bldg., Pittsburgh, Pa., 2 story, 171 x 350 ft. warehouse, 154 x 345 ft. enamel shop, 102 x 197 ft. cleaning house, 97 x 589 ft. foundry, 100 x 250 ft. machine shop, 107 x 132 ft. powerhouse, 100 x 120 ft. enamel power mill 5th Ave. from 7th St. to Camp Holabird, here. $2,000,000. Noted Nov. 29, under "Unclassified."

N. C., Old Fort — Bancroft & Sons Co., Rockford St., Wilmington, Del., purchased 500 acres here and plan to erect large bleachery to care for output of 40-50 mills, several hundred houses, and factory town incl. streets, water, sewer, etc. $30,000,000. Q. E. Sirrine & Co., Greenville, S. C., engrs.

Fla., Tampa—Swann Terminal Co., 314 Madison St., had plans prepared by Lockwood, Green & Co., Healey Bldg., Atlanta, Ga., 3 story, 140 x 600 ft., steel warehouse, also 5 story, 140 x 600 ft. concrete and brick mill building, incl. cold storage plant, offices, etc., at Swann Terminal on Estuary St. $750,000. Noted June 21.

Ky., Ashland—Person Slagtex Co. plans new plant. $40,000.

Ky., Louisville—H. Fischer Packing Co., 1806 Mellwood Ave., plans 3 story, 37 x 205 ft. brick factory. To exceed $40,000.

Ky., Sebree—G. T. Carnal plans 3 story and basement mill to replace one destroyed by fire. $40,000.

O., Cincinnati—Queen City Oil Co., 128 Water St., plans gasoline and oil storage plant, Colerain Ave. $60,000.

O., Cleveland—Acetylene Stove Mfg. Co., 1265 West 2nd St., had plans prepared by W. J. Wefel, 3327 Yorkshire Rd., Cleveland Heights, 1 story, 60 x 160 ft. brick and steel factory, East 59th St. and Park Ave. $50,000.

O., Cleveland—L. Blanshield, 3322 East 119th St., had plans prepared by L. Skolnik, 6th—St. Clair Bldg., 1 and 2 story, 43 x 149 ft., brick garage, 12100 Kinsman Rd. $50,000.

O., Cleveland—Ohio Confection Co., 5305 Sweeny Ave., plans 3 or 4 story, 120 x 330 ft., brick, steel and concrete factory and office building addition, Warner Rd. along tracks of Pittsburgh & Lake Erie R.R. $200,000. Engineer and architect not selected.

O., Cleveland—J. Spielman, Ulmer Bldg., had plans prepared 1 and 2 story, 43 x 129 x 141 ft. brick garage, East 121st. and Kinsman Rd. $50,000. Private plans.

O., Middletown—W. B. Oglesby Paper Co., having plans prepared 2 story, 100 x 100 ft. concrete, brick and steel, addition to factory. $185,000. Private plans.

O., Portsmouth—Carlyle—Labold Co. having plans prepared 1 story, brick factory, $75,000 to $100,000. Private plans.

O., Reading (branch of Cincinnati)—General Match Co., 1626 Hamer St., Cincinnati, plans several brick, steel and concrete buildings, here. $250,000. Engineer and architects names withheld

Ind., Michigan City—Michigan City Lumber & Coal Co. plans 1 story mill, garage and office buildings, brick and timber, Washington and 2nd Sts. $40,000. Nicol, Scholer & Hoffman, Ross Bldg., Lafayette, archts.

Mich., Detroit—Peerless Portland Cement Co., 2408 First Natl. Bank Bldg., having plans prepared by A. Kahn, 1000 Marquette Bldg., rein.-con. and steel plant, plain foundation, 1,500 bbl. daily capacity, West Jefferson Ave. $1,500,000.

Mich., Detroit—Weston & Ellington, archts., 1507 Stroh Bldg., preparing plans, 1 story and basement, 100 x 250 ft. rein.-con. and brick factory, plain foundation, Scotten Ave. $100,000. Owner's name withheld.

Ill., Chicago — Francisco & Jacobus, archts., 39 South La Salle St., take bids about Dec. 15, 3 story factory, fireproof, Grand St. near Kenton St., for Continental Can Co., 111 West Washington St. $500,000.

Ill., Freeport—W. T. Rawleigh Co., 101 South Liberty St., having plans prepared by J. R. and E. J. Law, 1st Central Bank Bldg., Madison, Wis., 6 story and basement, 120 x 300 ft., rein.-con., brick and stone, printing plant, Spring St., here. $400,000.

Wis., Delavan—A. H. Schumacher, rejected bids 2 story, 40 x 68 ft. and 20 x 62 ft., brick and concrete garage, plain foundation. Will readvertise later. H. C. Hengels, 445 Milwaukee St., archt. Noted Oct. 18.

Wis., Eau Claire—Wisconsin-Minnesota Light & Power Co., 2 South Barstow St., plans 2 story, warehouse and garage, brick and concrete, plain foundation, Railroad St. $50,000. Engineer and architect not selected.

Wis., Oshkosh—Morgan Co., 6th and Oregon Sts., plans to rebuild 3 story, brick and timber or brick and concrete warehouse, plain foundation, recently destroyed by fire. $60,000. Engineer or architect not selected.

Wis., Randolph — J. E. Hennen, archt., North Main St., Fond du Lac, soon takes bids 2 and 3 story, 42 x 80 ft. main building, 2 story, 60 x 120 ft. warehouse, 1 story, 38 x 40 ft. boiler house, 30 x 72 ft. viner building and 30 x 32 ft. minor building, brick and timber, plain foundation, for Friesland Canning Co., c/o W. Jones, pres. $75,000. Noted Nov. 1.

Ia., Bedford—Plans electric lighting plant incl. oil engine and dynamo, $40,000; distribution system $25,000. Prince-Nixon Eng. Co., 501 Peters Trust Bldg., Omaha, Neb., engrs.

Ia., Dubuque—Belsky Motor Co., 6th and Iowa Sts., soon receives bids 2 story and basement, 50 x 125 ft. garage, brick and stone, $50,000. Koenigsberg & Weifeld, 155 Clark St., Chicago, archts.

Kan., Ft. Scott—City plans new electric light and power plant. $200,000. Architect not selected.

Mo., Moberly—Polar Wave Ice & Fuel Co., 3628 Olive St., St. Louis, having preliminary plans prepared by H. G. Clymer, Wainwright Bldg., St. Louis, 2 story, 100 x 200 ft., brick and rein.-con. plant, here. $150,000.

Mo., Mountain Grove—Defeated $40,000 bonds electric light plant. Noted Nov. 22.

Mo., St. Louis—Bd. Pub. Serv. and Citizens Bond Issue Supervisory Com. approved $500,000 bonds power plant.

Ark., Harrison — C. C. Utility Co., Eureka, purchased Harrison Electric Co. and plans to rebuild same, also erect ice and cold storage plant. $150,000.

Tex., Dallas—Trinity Portland Cement Co., Commonwealth Bldg., plans rebuilding cement mill recently destroyed by fire. $50,000 to $75,000. Private plans.

Tex., Ft. Worth—Ft. Worth Elevators Co., 1510 East 1st St., plans bag factory, concrete and brick, East Ireland St. $300,000. Engineer and architect not announced.

Tex., Raymondville — S. Butler, Kingsville, had plans prepared ice plant, etc., here. $40,000. Engineer and architect not announced.

Tex., Rockdale — City plans gas plant, using crude oil. $80,000. C. W. Arlitt, Littlefield Bldg., Austin, interested.

Okla., Ponca City—C. C. Woodruff, Reynolds Bldg., Ft. Worth, Texas, plans 2 story and basement, 45 x 140 ft., brick, concrete and tile, plant. $40,000 to $50,000.

Industrial Works (Continued)

Okla., Sand Springs—San Springs Cotton Mills having plans prepared Southwestern Eng. Co., 910 North Elwood St., Tulsa, 2 story and basement 200 x 240 ft. bleachery, rein.-con. and brick. $150,000.

Okla. Tulsa—Tulsa Cotton Mills Corp., 408 Atlas Bldg., plans 1 story rein.-con. mill, 175,000 sq.ft. floor space. $250,000. Standard Southwestern Eng. Co., 910 North Elwood St., structural engrs.

Ariz., Patagonia — Arizona Kuenzel Smelting Co., Nogales, having plans prepared for smelter plant, here, 25 tons daily capacity. Private plans.

Wash., Bellingham—Defeated $500,000 bonds for municipal hydro-electric power plant. Noted Dec. 6.

Wash., Seattle—Shell Oil Co., Westlake St. N. and Highland Dr., plans large oil terminal on 8-acre tract, Harbor Island, fronting East Waterway.

Wash., Seattle—Ford Motor Co., Highland Park, Mich., had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, Mich., 1 story, 30 ft. high, 50 x 311 ft. factory and car delivery building, rein.-con., plain foundation, Roy St., here.

Ore., Eugene—Central Stage and Terminal Co., soon receives bids 3 story, 68 x 120 ft. garage, bus depot and hotel, rein.-con., Willamette St. $75,000.

Ore., Verona—Oregon Amer. Lumber Co., 1017 Yeon Bldg., Portland, having plans prepared 1 and 2 story, 92 x 292 ft. saw mill, here. $40,000-$50,000. C. W. McGregor, mgr. Work will be done by company forces.

Calif., Hayward—Dohner & Galbraith, 1036 A St., plans 1 story concrete garage and auto salesrooms, A St. $40,000.

Calif., Huntington Beach — California-Pacific Textiles Inc., c/o J. W. Purinton, engr., 304 San Fernando Bldg., Los Angeles, having preliminary plans prepared, 100 x 300 ft. factory, 4 story storage building, boiler house, shipping building, transformer station, etc., rein.-con. and brick.

Calif., Los Angeles—Los Angeles Concrete Tile Co., I. W. Hellman Bldg., plan 1 story 75 x 200 ft. factory and 1 story 75 x 150 ft. curing sheds, probably hollow tile construction, Mission Rd.

Calif., National City—Schiefer & Sons, 372 8th St., San Diego, purchased 4 acre site, and plans plant, main building to be 170 x 200 ft., here. $100,000.

Calif., San Ysidro—The San Diego Smelter Co., San Diego, plans smelter plant, here. $300,000. A. Samson, genl. mgr. and vice-pres.

BIDS DESIRED

Tenn., Etowah — Louisville & Nashville R.R. Co., 10th St. and 3way., Louisville, Ky., taking bids and opens same about Dec. 31, brick and steel shop, here. $50,000.

Ky., Louisville—Dec. 27, by Joseph & Joseph, archts. Francis Bldg., 1 story, 120 x 200 ft., factory, 17th and Magnolia Sts., for Highway Iron Products Co. Columbia Bldg. $106,000.

O., Cleveland—Natl. Biscuit Co., 85 9th Ave., New York City, taking bids and opens same about Dec. 13, 1 story, 64 x 450 ft., brick and steel warehouse, East 83rd St. and Woodland Ave., here. $200,000. A. Zimmerman, c/o owner, constr. engr. Private plans.

O., Toledo — Dec. 15, by Libby-Owens Sheet Glass Co., Nichols Bldg., 1 story, 187 x 1,000 ft., brick and steel plant, along tracks of New York Central R.R. $1,000,000. Devore & Co., 808 Nichols Bldg., archts. Noted June 28.

Ind., Indianapolis — Rubush & Hunter, archts., 428 Amer. Central Life Bldg., taking bids 3 story and basement, 61 x 209 ft., brick factory, 13th and Senate Sts., for Indianapolis Glove Co., Liberty and Michigan Sts.

Mich., Crystal Falls—Dec. 15 (extended date) by F. E. Parmelee & Son, archts., Iron Montain, 1 story, 52 x 100 ft., concrete and brick garage, plain foundation, for Webb Garage Co., $50,000. Noted Nov. 22.

Wis., Madison — A. J. McCance, 204 Meirey St., taking bids 1 story, 60 x 100 ft., garage and repair shop, brick, rein.-con. and steel, plain foundation. $50,000. Private plans. Noted Dec. 6.

Wis., Milwaukee—M. J. Goodnetter, 384 22nd St., taking bids 1 story, 40 x 120 ft., concrete garage, plain foundation, North Ave. $40,000. Private plans.

Wis., Milwaukee — Hummel & Downing Co., 324 Thomas St., taking bids 1 story, 100 x 100 ft. storage plant, steel, plain foundation, Newhall St. $50,000. Private plans.

Mo., St. Louis—W. P. McMahon, archt., Title Guaranty Bldg., taking bids and opens same about Dec. 15, 4 story and basement, 37 x 155 ft. rein.-con., brick, stone and tile service building, Locust St., for Mendenhahl Motor Co., 2317 Locust St. $100,000. Noted Nov. 1.

Tex., Abilene—Dec. 20, by J. M. Radford, Radford Bldg., 2 story, 50 x 135 ft., brick and stone warehouse, Oak and Pecan Sts. $50,000. D. S. Castle Co., Radford Bldg., archts.

Calif., Los Angeles — Walker & Eisen, archts., Pacific Finance Bldg., taking bids 1 story, 360 x 800 ft., brick factory, Slauson and South Park Aves., for Weber Showcase Co., 316 South Los Angeles St. To exceed $125,000. Noted Nov. 15.

CONTRACTS AWARDED

R. I., Providence—Davol Rubber Co., 69 Point St., plant, brick, wood pile foundation, Smith St., to O. D. Purinton Co., Industrial Trust Bldg., $100,000. Noted Sept. 20.

Conn., East Hartford — New York, New Haven & Hartford R.R., boiler house and oil storage house, brick and steel, plain foundation, to H. R. Kent & Co., 5 Erie Ave., Rutherford, N. J. Archts. est. $45,000.

Conn., Hartford—Standard Mattress Co., 711 North St., 4 story, 40 x 52 ft. factory, rein.-con. and brick, plain foundation, North St., to Southern New England Contg. Co., 703 Main St. Archts. est. $40,000. Noted May 31.

Conn., Wallingford—International Silver Co., Center St., three 1 story, 45 x 125 ft. factory buildings, brick and steel, plain foundation, to C. F. Wooding Co., Wallace St. Archts. est. $60,000.

Conn., Waterbury — Waterbury Rolling Mills, Inc., Watertown Ave., 1 story factory, brick and steel, plain foundation, to Tracy Bros. Co., Benedict St. Archts. est. $50,000.

N. Y., Binghamton—Cutler Ice Co., 310 Front St., ice plant, to York Mfg. Co., York, Pa., $49,000. Archts. est. $50,000. Noted Oct. 18.

N. Y., Cohoes—Mohawk Paper Makers, Inc., 1 story, 46 x 90 ft., concrete, brick and steel power house, plain foundation, Saratoga Ave., to T. Neary, Cohoes. Est. $95,000.

N. Y., New York—H. Cahn, c/o J. DeHart, archt. and engr., 1041 Fox St., will build 2 story, 100 x 175 ft., rein.-con., brick, steel and stone garage, 69th St. and Ave. A, by day labor. $200,000.

Pa., Holmesburg (Phila. P.O.)—Wilmington Bleachery Co., Market and Race Sts., Wilmington, Del., 1 story, 60 x 60 x 60 x 200 x 240 x 300 ft. plant, and 1 story, 30 x 40 ft. boiler house, here, to Latta Armstrong Co., 1923 Sansom St., Phila., $125,000.

Pa., Phila.—Brandle & Smith, 8th and Dauphin Sts., 2 story, 207 x 329 ft. rein.-con., brick and steel factory, plain foundation, 8th and Dauphin Sts., to W. Steele & Sons Co., 219 North Broad St., $624,000.

Md., Amcelle (Cumberland P. O.)—Amer. Cellulose & Chemical Co., Ltd., Cumberland, 9 units of plant, here, to Austin Co., Jefferson Bldg., Phila., $2,000,000. Noted Nov. 29.

Tenn., Nashville—Hooper Grocery Co., 2nd Ave., 4 story, rein.-con. and steel warehouse, to E. G. Holliday Co., 151 4th Ave. North. $60,000. Noted Dec. 6.

Ky., Hazel—Dark Tobacco Growers' Cooperative Assn., Owensboro, 1 story, 100 x 350 ft. brick warehouse, to J. Cole, Paducah, Archts. est. $40,000.

O., Cleveland—Cleveland Tanning Co., Denison Ave. and Baltimore & Ohio R.R., 1 story, concrete and brick factory, Denison Ave., to S. W. Emerson Co., Union Bldg. Archts. est. $40,000.

O., Cleveland — Pennsylvania Warehouse Co., c/o G. E. Peterson, 1011 Schofield Bldg., altering 3 and 5 story, 87 x 216 ft. factory, 2163 Ashland Rd., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $150,000.

O., Steubenville — F. Scott (Studebaker Agency), 2 story and basement, brick and rein.-con., service and sales building, to Ingstrom & Co., Wheeling, W. Va. Archts. est. $150,000. Noted Oct. 25.

O., Toledo—See "Buildings."

Ind., Indianapolis — Kentucky & Oliver Realty Co., 517 South Delaware St., brick, concrete and steel warehouse, Oliver and Kentucky Aves., to Moynahan Constr. Co., North Senate Ave. Archts. est. $100,000.

Ill., Chicago—S. D. Jonas, 133 West Washington St., 1 story, garage, fireproof, Lake and Homan Sts., to A. T. Herlin, 6117 Evans Ave. Archts. est. $40,000.

Ill., Rockford — Rockford Cabinet Co., 12th St. and 19th Ave., 4 story and basement, 100 x 225 ft., brick, stone and steel factory, to Holmquist-Peterson Constr. Co., Swedish Amer. Bank Bldg. Archts. est. $225,000.

Wis., Durham (Hales Corners P. O.)—G. Bosch, 2 story, 67 x 70 ft., brick and tile warehouse, plain foundation, to O. Hagenson, Burlington. Archts. est. $40,000. Noted Nov. 8.

Wis., Eau Claire—Dells Paper & Pulp Co., Dells Dam, will remodel 2 story pulp mill, brick and steel, by day labor. $500,000. L. A. De Guere, Wood Blk., Wisconsin Rapids, engr. and archt. Noted July 28.

Wis., Milwaukee—Main Express Co., 116 Oneida St., 1 story, 60 x 100 ft., brick and concrete garage, plain foundation, Market St., to J. Leenhouts, 1614 Lloyd St. Archts. est. $40,000.

Wis., Kenosha — Amer. Brass Co., 570 Elizabeth St., superstructure 2 story, 220 x 540 ft. copper wire mill, brick and steel, to P. Riesens Sons, 1018 Humboldt Ave., Milwaukee. $300,000. Noted Oct. 25.

Kan., Kansas City—City, one 12,500 kva. turbo generating unit and 20,000 sq.ft. surface condenser, to Westinghouse Electric & Mfg. Co., Orear-Leslie Bldg., Kansas City, Mo., $267,400.

Ark., Little Rock—N. O. Nelson Mfg. Co., 10th and Chestnut Sts., St. Louis, Mo., warehouse and office building, here to Herman & McCain Constr. Co., Riegler Bldg. Archts. est. $100,000.

Tex., Eastland—Lone Star Gas Co., Amer. Exch. Bank Bldg., Dallas, will build 1 story, 31 x 200 ft. gas plant by day labor. $50,000.

Tex., Houston—Southwestern Bell Telephone Co., Capitol Ave., 8 story, brick and concrete shop, etc., to J. Antill, Milwaukee Bldg., $100,000. Noted Dec. 12.

Tex., Houston—White Co., P. E. Seamans, mgr., Leeland & La Branch, 1 story, 100 x 100 ft., brick and tile garage, Leeland St., to J. Statler, Austin St., $40,000.

Tex., Port Arthur—Port Arthur Ice & Refrigerating Co., ice plant, to York Eng. & Supply Co., Texas Ave., Houston, $300,000. Noted Dec. 6.

Tex., San Antonio—E. Friedrich, 802 East Commerce St., will build 140 x 230 ft. frame factory, concrete foundation, Paso Hondo St., by day labor. $40,000. Private plans.

Calif., Long Beach—Southern Service Co., Bway. and Mitchell Sts., 1 story, 80 x 120 ft. addition to main laundry building, and 2 story, 40 x 80 ft. addition to shop department, brick, to McGrew & Sons, 1345 West Ocean Ave., on percentage basis. Noted Oct. 25.

Calif., Oakland—R. McGahie and S. P. Palmer, Mills Bldg., San Francisco, 1 story concrete garage, Piedmont Ave., to J. Martinelli, 180 Jessie St., San Francisco, $42,000.

Calif., San Francisco — Amer. Can Co., Mills Bldg., 1 story garage and 1 story oil storage building, brick, steel and concrete, 20th and Illinois Sts., to Lindgren & Swinerton, Standard Oil Bldg., $42,000.

Calif., San Francisco—Bothin Real Estate Co., 604 Mission St., 2 story, 78 x 128 ft. rein.-con. warehouse and office, Brannan and Ritch Sts., to Buschke & Brown, 185 Stevenson St., $40,000. Bowser Co., 612 Howard St., lessee.

Buildings

PROPOSED WORK

Conn., Hartford—Apartment—Ferrante & Guarnaccia, 122 Brown St., having plans prepared by Dunkelberger & Gelman, 721 Main St., 3 story, 80 x 150 ft., brick, plain foundation, Farmington Ave. $150,000.

Conn., Hartford—Office—D. A. Dunham, 119 North Beacon St., plans 48 x 100 ft., brick, stone and steel, plain foundation, Lewis St. $200,000.

Conn., Suffield—School—School Bd. plans 2 story. $150,000. S. H. Graham, member. Engineer and architect not selected.

N. Y., Albany—High School—Bd. Educ. plans 4 story, 180 x 220 ft., brick and steel, plain foundation, $1,000,000. E. C. Jones, supt. schools. Private plans.

N. Y., Binghamton—Hospital—Plans election soon to vote on $400,000 bonds (1st unit of 5 unit hospital), incl. 3 story unit for contagious diseases, 5 story building for dispensary clinic and wards, 4 story service building, Park and Mitchell Aves. Total cost $1,500,000.

N. Y., Brooklyn—Nurses Training School—United Israel Zion Hospital, c/o B. W. Dorfman, archt. and engr., 26 Court St.,

Buildings (Continued)

having plans prepared 4 story, 90 x 110 ft., brick, steel and stone, plain foundation, 10th Ave. and 48th St. $500,000.

N. Y., Dolgeville—School—Dec. 27, to vote on $180,000 bonds for school, South Main St. Will mature in spring. Tooker & Marsh, 101 Park Ave., New York City, archts.

N. Y., New York—Apartment—M. Silverman, 1819 Bway., plans brick, steel and stone, plain foundation, West 79th St. $2,000,000. Engineer and architect not selected.

N. Y., New York—Hotel—F. Pettit, 2 Wall St., plans 22 story, 200 x 400 ft., brick and stone, plain foundation, 7th Ave. and 58th St. Engineer and architect not selected.

N. Y., Ozone Park (Jamaica P. O.)—School—Bd. Educ., 500 Park Ave., New York, having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, 5 story, brick, steel and stone, plain foundation, 109th Ave., here. $750,000.

N. Y., Portchester—Y. M. C. A., 2 West 45th St., New York City, having plans prepared by J. F. Jackson, archt. and engr., 137 East 45th St., New York City, brick, steel and stone, plain foundation, Pearl St., here. $225,000. Noted June 28.

N. Y., Utica—Temple and Office—Masonic Order of Utica, c/o F. A. Schmidt, 3 Otsego St., Ilion, having plans prepared by Clinton & Russell 100 Maiden Lane, New York City, temple and office building, Genesee St., here. $800,000.

N. J., Bordentown—School—Bd. Educ., having plans prepared by Guilbert & Bettelle, archts. and engrs., 2 Lombardy St., Newark, brick, steel and stone, plain foundation. $200,000.

N. J., Newark—Industrial School—Bd. Educ., City Hall, having plans prepared by Guilbert & Bettelle, archts. and engrs., 2 Lombardy St., brick, steel and stone, plain foundation, near Weequahic Park. $250,000.

Pa. Lewistown — Church — Lewistown Methodist Episcopal Church, plans 1 story and basement, 96 x 198 ft., rein.-con., steel and stone, South Main St. $150,000. G. B. Keim, supt.

Pa., Phila.—Apartment and Store—Frank & Sedar, 11th and Chestnut Sts., plan 12 story, 75 x 200 ft., 11th and Market Sts. $3,000,000. Architect not announced.

Pa., Phila.—Bank—Natl. Bank of Commerce, 713 Chestnut St., plans addition and alterations to present building. Engineer and architect not selected.

Pa., Tyrone—Store—J. H. McCrory Five and Ten Cent Stores Co., plans 3 story and basement, 106 x 107 ft., rein.-con., brick and steel, Penna. Ave. and West 10th St. $150,000. Will mature in spring.

Pa., West Chester—Hospital—Chester Co. Hospital having plans prepared by York & Sawyer, archts., 100 East 42nd St., New York City, 2 story, 50 x 2[illegible] ft. concrete, brick, steel and stone, plain foundation. $200,000.

Md., Baltimore—Store—Hochschild, Kohn & Co., Lexington and Howard Sts., plans store, probably 10 story, rein.-con. and brick, Lexington and Howard Sts. $3,500,000. Engineer and architect not selected.

Md., Hagerstown—Bank and Office—Maryland Surety & Trust Co., 83 West Washington St., soon takes bids brick, steel and stone, plain foundation, Court Pl. $200,000. A. C. Bossom, 680 5th Ave., New York City, archt. and engr. Noted Nov. 8.

W. Va., Martinsburg — Church — First Baptist Church, plans new church, Wiley St. $200,000.

N. C., Raleigh—Orphanage—Bd. Trustees Methodist Orphanage plans administration and other buildings, cost between $300,000 and $350,000. R. N. Page, Biscoe, chn. executive com.

Fla., Tampa — Office — See "Industrial Works."

Ala., Birmingham — Church — Fifth Ave. Presbyterian Church plans stone church, 6th Ave. and 18th St. $250,000. Engineer and architect not selected.

Ala., Opelika — Station — Central of Georgia R.R. Co., 288 West Broad St. Savannah, Ga., and Western of Alabama R.R. Co., Atlanta, Ga., plans station, brick, here. $150,000. C. K. Lawrence, ch. engr. of former, O. T. Nelson, ch. engr. of latter.

Miss., Greenwood—School—Bd. Educ., c/o S. P. Kessler, pres., plans election soon to vote on $165,000 bonds, $125,000 to be used for junior high school and $40,000 for grade school.

Tenn., Nashville—Office—Independent Life Insurance Co., Independent Life Bldg., having plans prepared by G. Waller, Independent Life Bldg., 2 story, rein.-con., steel and stone addition, 44 rooms, 4th and Church Sts. $150,000. Noted Dec. 6.

Tenn., Nashville—Seminary—Amer. Baptist Theological Seminary, 161 8th Ave., N., having plans prepared by Daugherty & Gardner, Stahlman Bldg., college buildings, dormitories, etc., near Nashville. $250,000. Noted Nov. 29.

Ky., Henderson — Hotel — Community Hotel Co. having plans prepared by H. L. Stevens Co., 30 North Michigan Ave., Chicago, Ill., 6 story, 100 x 150 ft. $300,000.

Ky., Louisville—Apartment—C. A. Koerner & Co., 318 East Burnett St., plans 6 or 7 story, 100 x 150 ft., 2nd and York Sts. $800,000. Architect not selected.

Ky., Louisville — Church — Beechmont Methodist Episcopal Church South, 3rd St., plans 1 story, 60 x 125 ft., Southern Parkway. $150,000.

O., Canton—Market and Mercantile—A. B. Flory Grocery & Baking Co., 600 Mulberry Rd. S. E., plans 4 story, 66 x 200 ft., 5th Ave. and Cleveland Ave., N. W. $200,000.

O., Cincinnati — Church — Hyde Park Methodist Episcopal Church, plans church, Observatory and Grace Aves. $250,000. Lowe & Bollenbacher, 108 South La Salle St., Chicago, archts.

O., Cleveland—Apartment—Bonar Realty Co., c/o P. F. Price, 309 Union Bldg., plans 3 story and basement, brick, East 82nd St. and Crawford Rd. $150,000. Allen-Osborn Co., Rose Bldg., archts.

O., Cleveland—Apartment—N. Gottleib & Son, 668 East 113 St., plans 3 story and basement, brick and timber, Hampton Rd. and Euclid Heights Blvd. $150,000. Private plans.

O., Cleveland—Apartments—A. Krinsky and M. Sadai, 3611 East 118th St., having plans prepared by N. Pettis, Williamson Bldg., two 3 story and basement, 37 x 116 ft., and 40 x 158 ft. brick and timber, East 88th St., near St. Clair Ave. $200,000.

O., Cleveland Heights (Warrensville P. O.)—Apartment Hotel—K. H. Smith and H. E. Steffens, 4900 Euclid Ave., Cleveland, are representing company which plans 6 or 8 story, brick, Cedar Rd. and Fairmount Blvd., here. $300,000. Engineer and architect not selected.

O., Columbus—City Hall—Having competitive plans prepared by Columbus chapter of Amer. Institute of Architects, for new city hall. $600,000-$800,000.

O., Dayton—Temple—Jefferson St. Temple Congregation, plans new rein.-con. and stone, Dayton View, $300,000 to be raised for project, E. Raub, pres. Engineer and architect not selected.

Ind., Indianapolis—Temple—Beth El Jewish Congregation, had plans prepared by Vonnegut, Bohn & Mueller, 610 Indiana Trust Bldg., and soon takes bids, brick, 34th and Ruckle St. $150,000.

Mich., Detroit—Mercantile—F. B. Melin, 10202 Joseph Campau Ave., having plans prepared by L. Kamper, Kamper Bldg., 3 story and basement, 100 x 100 ft., brick and steel, plain foundation, Joseph Campau Ave. $150,000.

Mich., Detroit—Apartment and Store—J. I. Weinberg, archt., 401 Congress Bldg., preparing plans 4 story and basement, 80 x 115 ft., rein.-con., brick and steel, plain foundation, Woodward and Woodland Aves. $200,000. Owners name withheld.

Mich., Detroit — Apartment — W. Shumaker, c/o Hull & Owen, archts., 1205 Detroit Savings Bank Bldg., having plans prepared 3 story and basement, 72 x 108 ft., brick and steel, Savannah Ave. $150,000.

Mich., Highland Park (Detroit P. O.)—School—Bd. Educ. having plans prepared by Burrowes & Eurich, 2631 Woodward Ave., Detroit, 2 story and basement, 110 x 140 ft. rein.-con., brick, steel and stone, plain foundation. $200,000.

Mich., Pontiac — Hotel — Van Leyen, Schilling, Keough & Reynolds, archts., 3440 Cass Ave., Detroit, preparing plans 8 story and basement, 80 x 150 ft., rein.-con., brick and steel, plain foundation, $1,000,000. Owner's name withheld.

Wis., Chippewa Falls—School—St. Marys Congregation, c/o J. McGuirk, pastor, 117 Allen St., having plans prepared by M. E. Trudelle, 8016 Euclid Ave., Cleveland, O., 2 story and basement, 62 x 170 ft., brick and tile, plain foundation. $150,000.

Wis., Eau Claire—Theatre—Eau Claire Theatre Co., c/o M. Homa, South Barstow St., having plans prepared by J. E. Nason, Corn Exch., Minneapolis, Minn. and C. A. Pear, Traux Bldg., Eau Claire, 2 story and basement, brick and concrete, plain foundation, East Grand Ave. $150,000.

Wis., La Crosse—Dormitory—Franciscan Sisters of Perpetual Adoration, plan to rebuild 3 story, brick and concrete, plain foundation, recently destroyed by fire. $[illegible],000. Engineer and architect not selected.

Wis., Milwaukee — Bank and Office — Northwest Natl. Bank, c/o J. G. Rentenmann, pres., 114 Grand Ave., having plans prepared by Dick & Bauer, 801 State St., 2 story and basement, 67 x 80 ft., and [illegible] x 65 ft., brick stone and concrete, plain foundation, North Ave. $150,000.

Wis., Milwaukee—Dormitory—Concordia College, 3127 State St., had plans prepared by R. Messmer & Bros., 221 Grand Ave., 3 story and basement, brick and concrete, plain foundation, 31st and State Sts. $150,000.

Wis., Milwaukee — High School — Marquette University, 115 Grand Ave., plans 3 story and basement, brick, tile and concrete, plain foundation. $500,000. Architect and engineer not selected.

Ia., Ft. Dodge—Hospital—Lutheran Hospital Assn., having plans prepared by F. W. Griffith, Ft. Dodge, 4 story and basement, 90 x 90 ft., rein.-con., brick, tile and stone. $200,000. T. K. Peterson, Badger, pres. Noted Apr. 5.

Ia., Ft. Dodge—Hotel—E. I. Leighton, 112 3rd Ave., having plans prepared by F. W. Griffith, 400 Snell Bldg., 3 story and basement, rein.-con., brick and stone. $150,000.

Ia., Sioux City—Lodge—Epiphany Council Knights of Columbus, Commercial Bldg., plans 3 story and basement, rein.-con., brick and stone, 8th and Douglas Sts. $150,000. J. C. Mullaney, ch. building comn.

Minn., Minneapolis—Office—Thorpe Bros., 206 Andrus Bldg., rejected bids Nov. 12, 8 story and basement, 48 x 120 ft., rein.-con., brick and tile, 519 Marquette Ave. $200,000. Will readvertise shortly.

Kan., Emporia—School—Emporia College plans school. $150,000. Architect not selected.

Mo., Carthage—Church—First Methodist Church having preliminary plans prepared by P. K. Simpson, Carthage, 1 story and basement, brick, stone and rein.-con., church and Sunday school. $150,000.

Mo., Kansas City — Business — Palace Clothing Co., 909 Main St., having plans prepared by F. E. McIlvain, 1001 Orear-Leslie Bldg., 7 story and basement, 87 x 115 ft., rein.-con. and brick, 12th and Grand Sts. $500,000.

Mo., Kansas City—Hotel—C. E. Phillips, 609 Victor Bldg., plans 4 story and basement, rein.-con. and brick, 46th and Main Sts. $300,000. Private plans.

Mo., St. Louis—Bank—Soulway Realty Co., 1731 South Bway., having plans prepared by Klipstein & Rathman, Chemical Bldg., 2 story, 50 x 140 ft. rein.-con., brick, steel and stone, Chouteau St. $150,000.

Mo., St. Louis—Hospital, etc.—Bd. Pub. Serv. and Citizens Bond Issue Supervisory Com. approved $850,000 bonds hospital and similar institutions, also $150,000 bonds market.

Mo., University (St. Louis P. O.)—Office and Store—Hasgell Realty & Investment Co., c/o Weisels-Gerhart Realty Co., 8th and Chestnut Sts., St. Louis, having preliminary plans prepared 4 story, 100 x 100 ft., Delmar Blvd., here. $150,000. Private plans.

Ark., Pine Bluff—High School—Bd. Educ., c/o H. B. Strange, Citizens Bank Bldg., having preliminary plans prepared 2 story and basement, rein.-con., brick and stone. $200,000. Engineer and architect not announced.

Tex., Lubbock—College—Texas Technical College having plans prepared by Sanguinet, Staats & Hedrich, First Natl. Bank Bldg., Fort Worth, college buildings, $450,000, ultimate cost $950,000. L. W. Robert, Int. Bldg., Dallas, engr. Noted Oct. 11.

Tex., San Antonio—Hotel—Syndicate in conjunction with W. J. Lytle, c/o Empire Theater, having plans prepared by A. B. and R. M. Ayres, Bedell Bldg., 8 story, 650 rooms, along river between Houstin and Travis Sts. $1,000,000.

Tex., Waco—Club and Theater—Karem Temple A. A. O. N. M. S., plans 6 story and basement, 110 x 165 ft., Washington and 7th Sts. $300,000. Engineer and architect not announced.

Tex., Waco — Hospital — Katy Hospital Assn., Missouri, Kansas & Texas Bldg., Dallas, making plans 5 or 6 story, brick and concrete. $200,000. Engineer and architect not announced.

Buildings (Continued)

Okla., Blackwell—Memorial—City plans 2 story, 125 x 160 ft., rein.-con. and stone memorial. $200,000. Smith & Senter, Commercial Bldg., Okmulgee, archts. Noted Nov. 1.

Okla., Guthrie — High School Election Dec. 18, to vote on $280,000 bonds for 3 story, 180 x 200 ft., brick, plain foundation, Noble St. Hawk & Parr, Magnolia Bldg., Oklahoma City, archts.

Okla., Ponca City—School—Bd. Educ. having plans prepared by Smith & Senter, Commerce Bldg., Okmulgee, 2 story, 160 x 180 ft., brick, plain foundation, 6th St. $150,000.

Colo., Denver—School—St. Philomenas Parish, 14th and Detroit Sts., had plans prepared by Mountjoy & Frewen, Patterson Bldg., 2 story, 75 x 225 ft., brick, terra cotta and concrete, 10th and Filmore Sts. $200,000.

Wash., Seattle—Forestry—University of Washington having plans prepared by Bebb & Gould, Hoge Bldg., forestry building. $250,000.

Wash., Seattle.— Sanatorium — W. E. Waldo, Rotary Club, having plans prepared by P. Richardson, Henry Bldg., 2 story, concrete and steel, 1st unit of 3 proposed structures, 15th and 85th Sts. $150,000.

Calif., Berkeley—College—University of California, plans fireproof construction agricultural building on block bounded by Hearst Ave., Virginia, Walnut and Oxford Sts. $150,000 or more.

Calif., Berkeley—School—Berkeley School Dist. plans school on La Loma, Le Roy and Buena Vista Aves., to replace one recently destroyed by fire. $150,000 or more.

Calif., Glendale—Hotel—Glendalia Hotel Co., Inc., rejected bids 5 story, 103 x 150 ft., brick and steel, California St. and Brand Blvd. $300,000. A. F. Priest, Fay Bldg., Los Angeles, archt. Noted Oct. 4.

Calif., Los Angeles—High School—Bd. Educ. having preliminary plans prepared by F. J. Soper, Kerchkoff Bldg., brick, Exposition and Harvard Blvds. $300,000.

Calif., Los Angeles—Hotel—Sixth & San Pedro Holding Corp., c/o C. F. Whittlesey, archt., 6533 Hollywood Blvd., had preliminary plans prepared hotel, about 10 story, 650 rooms, rein.-con., 6th and San Pedro Sts.

Calif., Richmond—Club—City had plans prepared by J. T. Narbett, 910 Macdonald Ave., 2 story, tile and stucco, war memorial clubhouse, 12th St. $150,000.

Calif., Sacramento—Lodge and Club—B. P. O. E. approved preliminary plans drawn by Hemmings & Stark, Ochsner Bldg., 6 story and basement, 100 x 160 ft., Class A construction, 11th and J Sts. $1,000,000.

Calif. San Francisco—Apartment—Fabre & Hildebrand, archts., 110 Sutter St., preparing preliminary plans 6 story and basement, rein.-con., Jones St. Owners name withheld.

Calif., San Francisco—Bungalow Apartment—L. Hellmann, 645 Bush St., had plans prepared by G. Stahlberg, Flatiron Bldg., group of 18 buildings, 1 story, frame and stucco, Bay and Larkin Sts. $150,000.

Calif., San Francisco—Hotel—Fairmont Hotel Co., California and Powell Sts., having plans prepared by Rejd Bros., 105 Montgomery St., 2 story, Class A addition to present 7 story hotel, also 100 ft. extension to ballroom with roof garden, Power, California, Mason and Sacramento Sts. $600,000 or more. D. Linnard, mgr.

Calif., San Francisco—School—City and San Francisco Co., having plans prepared by J. Reid, Jr., city archt., Natl. Bank Bldg., second unit of Galileo High School, fireproof, Van Ness Ave. $150,000 or more.

Calif., San Mateo—Hotel—B. Getz, Inc., Chronicle Bldg., San Francisco, having plans prepared by Morrow & Garren, Chronicle Bldg., San Francisco, 3 to 4 story, rein.-con., 3rd St. $200,000.

Calif., San Mateo—Store—B. Getz, Inc., Chronicle Bldg., San Francisco, having plans prepared by Morrow & Garren, Chronicle Bldg., San Francisco, 1 story and mezzanine, rein.-con., 3rd St. $150,000.

Calif., San Mateo—Theatre—B. Getz, Inc., Chronicle Bldg., San Francisco, having plans prepared by Morrow & Garren, Chronicle Bldg., San Francisco, 1 story, rein.-con., Class A construction 3rd St. $150,000.

Calif., Santa Monica—Apartment—Shoreham Apartment-Hotel Co., c/o Davies & Baume, archts., Farmers & Merchants Bank Bldg., Long Beach, having preliminary plans prepared 11 story, 200 x 467 ft., rein.-con., San Vicente Blvd. and Ocean Ave.

ROAD WORK—VIRGINIA

Following are lowest three bids opened Nov. 22, by State Highway Comn., Richmond, for constructing road between Manquin and Mechanicsville, Hanover Co., Project F-166C. (A) Pace Constr. Co., Roanoke; (B) Gosnell-Russell Co., Frederick, Md.; (C) Noland-Clifford Co., Newport News. The unit bids were as follows:

	A	B	C
8.3 acres clearing and grubbing	$200.00	$190.00	$150.00
50,550 cu.yd. excavation	0.50	0.48	0.50
51,683 sq.yd. one course plain cement concrete pavement	3.15	3.33	3.38
437.7 cu.yd. class A concrete	27.00	30.00	30.00
37.4 cu.yd. class B concrete	24.00	27.00	28.00
35,724 lb. reinforcing steel	0.12	0.08	0.11
282 lin.ft. 18-in. concrete pipe	4.00	3.50	7.00
284 lin.ft. 24-in. concrete pipe	5.50	4.75	8.50
4760 lin.ft. wooden guard rail	0.85	0.60	0.70
Extended totals	$234,822	$242,150	$249,740

DAM—FREDERICK, MD.

Following are lowest three bids opened Nov. 27, by E. C. Crum, city engr., for earth dam on Fishing Creek, (A) G. B. Mullin Co., Inc., 1296 Upshur Ave., Washington, D. C., (awarded contract); (B) Development & Constr. Co., Baltimore; (C) Consolidated Eng. Co., Baltimore. The unit bids were as follows:

	A	B	C
31 lin.ft. earth excavation in cutoff wall less than 15 ft. deep	$0.34	$12.50	$14.50
125 lin.ft. earth excavation in cutoff wall less than 20 ft. deep	2.32	16.80	16.20
70 lin.ft. earth excavation in cutoff wall less than 25 ft. deep	13.87	20.50	21.36
193 lin.ft. earth excavation in cutoff wall less than 30 ft. deep	15.979	26.50	25.00
99 lin.ft. earth excavation in cutoff wall less than 35 ft. deep	34.32	29.50	28.70
31 lin.ft. earth excavation in cutoff wall less than 40 ft. deep	29.14	35.00	35.00
27 lin.ft. earth excavation in cutoff wall less than 45 ft. deep	41.95	45.00	37.00
220 cu.yd. rock excavation in cutoff wall	6.00	8.00	8.00
3,000 cu.yd. earth excavation in waste canal	0.60	1.50	0.35
750 cu.yd. rock excavation in waste canal	1.80	3.00	2.50
1,100 cu.yd. earth excavation for trenches and drain tunnel	0.60	1.20	1.25
2,600 cu.yd. concrete in cutoff wall	11.28	12.00	15.40
2,000 cu.yd. concrete in core wall	10.68	16.00	17.35
670 cu.yd. concrete in waste canal	9.456	18.50	17.50
235 cu.yd. concrete in conduit tunnel	18.312	20.00	20.40
48,300 cu.yd. rolled embankment in dam	0.60	0.80	0.87
1,300 cu.yd. rip rap and rubble masonry	2.00	4.90	4.50
1 acre top soil and seeding	720.00	1,500.00	1,000.00
55 cu.yd. stone fill in drainage ditches	2.40	2.00	5.00
Gate tower complete (lump sum)	4,867.00	6,000.00	5,270.00
No. of calendar days to complete work @ $50.00 per day	279	340	217
Extended totals	$127,341	$172,833	$176,305

Calif., Sonora—Resort—A. T. Wood, et al., plans resort buildings, incl. pavilion, clubhouse, hotel, swimming tank, etc. $150,000 or more.

Que., Montreal—Office—Montreal Harbor Comrs., plans 2 story, rein.-con., brick and steel, on Victoria Pier. $175,000. T. Daoust, 61 St. James St., archt. Forgins & Guay, 83 Craig St. W., consult. engrs.

N. B., St. John—Hotel—Thomas, Armstrong & Bell Ltd., St. John, carrying out financial arrangements for building Admiral Beatty Hotel, 10 story, 160 x 160 ft. brick, steel and stone, King Sq. $750,000. Ross & McDonald, 1 Belmont St., Montreal, Que., archts.

BIDS DESIRED

Conn., Manchester—Armory—Dec. 18, by Payne & Keefe, archts., Manwaring Bldg., New London, 3 story, 75 x 150 ft., brick and steel, plain foundation, for Manchester State Guard. Noted Aug. 9.

N. Y., Buffalo—School—Dec. 27, by Bd. Educ., 1401 Telephone Bldg., P. S. 71, 3 story, 200 x 225 ft., rein.-con. and brick, Lang Ave. $500,000. Associated Buffalo Architects, 232 Delaware Ave., archts.

N. Y., Fultonville—School—Dec. 17, by Bd. Educ., Fultonville Natl. Bank, 3 story, 48 x 110 ft., brick and steel, plain foundation. $150,000. G. W. Conable, 46 West 24th St., New York City, archt. and engr. Noted July 12.

N. Y., New York — Apartment — F. F. French, 350 Madison Ave., will build 16 story, 63 x 72 ft., brick, steel and stone, plain foundation, Park Ave. Work will be done by separate contracts. Private plans.

N. Y., Niagara Falls—School—Dec. 14, by Bd. Educ., 2 story, 124 x 230 ft., brick, stone and tile, Cleveland Ave. and 13th St. $300,000. Associated Archts. of Niagara Falls, 503 3rd St., archts.

N. Y., Schuylerville—School—Jan. 14, by Clerk Bd. Educ., altering and building 3 story, 60 x 88 ft., brick and steel addition, plain foundation, Main St. $175,000. Nichols & Gardiner 46 North Pearl St., Albany, archts. and engrs. Noted Mar. 22.

N. J., Camden—High School—Dec. 17, by C. Adams, archt., 2038 Spruce St., Phila., Cramer Junior High School, 3 story and basement, 80 x 153 ft., rein.-con., brick and steel, plain foundation, 29th and Federal Sts., here, for Bd. Educ. $200,000.

N. J., Hightstown—Administration—Dec. 15, by Rich & Mathesius, archts., 800 5th Ave., New York City, 3 story and basement, 60 x 172 ft., rein.-con., brick and steel, plain foundation, here, for Peddie Institute. $200,000. Noted Nov. 8.

Pa., Bryn Mawr—School—Dec. 31, by Alden & Collins, archts., 75 Hembury St., Boston, Mass., 3 story, 74 x 147 ft. with 2 story, 64 x 92 ft. wing, brick, steel and stone, plain foundation, for Baldwin School. $200,000.

Pa., Indiana—High School—Dec. 16, by Bd. Educ., 2 story and basement, 150 x 150 ft. concrete, brick and steel. $300,000. Thayer & Johnson, New Castle, archts.

Pa., Phila.—Church—Dec. 18, by H. W. Caster, archt., St. Girard Bldg., 1 story and basement, 73 x 166 ft. church, Oxford Ave. and Dyer St., for Frankford Methodist Episcopal Church. Noted Nov. 8.

Pa., Phila.—Church—Dec. 31, by Ritcher & Eller, archts., Reading, 1 story and basement, 52 x 89 ft., brick, steel and stone, plain foundation, 13th and Rosemont Sts., for Mihlenberg Memorial Church, 13th and Rosemont Sts. $150,000.

Pa., Reading—Hospital—Dec. 19, by F. H. Muhlenberg, archt., Reading, 6 story and basement, 45 x 150 ft. rein.-con., brick and steel, plain foundation, Walnut St., for St. Joseph Hospital. $250,000.

Md., Baltimore—Office—Dec. 20, by C. N. and N. Friz, archts., Lexington Bldg., 7 story, 60 x 150 ft., rein.-con. and brick, plain foundation, Park Ave. and Centre St., for Home Friendly Society, 1026 Linden Ave. $550,000. H. F. Doelman, 507 North Charles St., engr. Noted Feb. 8.

Ala., Birmingham—Sanitarium—Jan. 10, by R. A. Brown, genl. chmn. for Jefferson Co. Tuberculosis Assn., 2 and 3 story, 40 x 224 ft., and 40 x 170 ft. stone. Red Mt. $200,000. R. Price, Bank Bldg., archt. Noted Aug. 30.

O., Cleveland—Apartment and Commercial—L. Duchon, 3045 Essex Rd., taking bids and opens same about Dec. 21, 4 story and basement, 100 x 125 ft., brick, East 40th St. near Windsor Ave. $200,000. A. F. Janowitz, 811 Prospect Ave., archt. Noted Sept. 6.

O., Cleveland—Apartment—I. Weinberg, 3280 East 123rd St., taking bids 3 story, 76 x 104 ft., brick and timber, 929 Lakeview Rd. $150,000. Private plans. Noted Nov. 22.

O., Cleveland — School — St. Catherine Roman Catholic Church, 3443 East 93rd St., taking bids and opens same about Dec. 17, 2 story and basement, brick and steel, East 93rd St. and St. Catherine Ave. $150,000. C. R. Greco, Guardian Bldg., archt. Noted Nov. 1.

O., Lima—School—Dec. 14, by Bd. Educ., 2 story and basement, 80 x 170 ft., brick, steel and concrete. $150,000. T. D. McLaughlin & associates, Savings Bldg., archts.

O., Mansfield—City Hall—Dec. 21, by city, 3 story and basement, 106 x 160 ft.,

Buildings (Continued)

brick, steel and concrete. $175,000. V. Redding & associates, Bird Bldg., archts.

Mich., Ann Arbor—Nurses Home—Dec. 20, by A. Kahn, archt., 1000 Marquette Bldg., 4 story and basement, 60 x 136 ft. with 2 wings 43 x 130 ft. each, rein.-con., brick and steel, plain foundation, Ann St., for University Hospital. $750,000. Noted Nov. 15.

Mich., Detroit—School and Rectory—Dec. 15, by J. G. Kastler Co., archts., 523 Detroit Savings Bank Bldg., 2 story and basement, 90 x 160 ft. school and 48 x 60 ft. rectory, rein.-con. and brick, Mt. Elliot Ave. and Seven Mile Rd., for St. Louis Parish, c/o archts. $175,000. Noted Nov. 1.

Mich., Owosso—Temple—G. W. Graves, archt., 233 John R St., Detroit, taking bids and opens same about Dec. 20, 5 story and basement, 66 x 120 ft. rein.-con., brick and steel, plain foundation, for Masonic Temple Assn. $150,000.

Ill., Chicago—Apartment—Ronneberg & Pierce, archts., 19 South LaSalle St., receiving bids 3 story and basement, 120 x 130 ft., rein.-con., brick and steel, Irving Park and Kildare St. $200,000. Owner's name withheld.

Ill., Oak Park — Apartment — H. B. Aarens, archts., 109 North Dearborn St., Chicago, receiving bids 3 story and basement, 75 x 125 ft., fireproof, 419-23 South Oak Park Ave., here, for E. Krulewitch c/o architects. $150,000.

Ill., Oak Park—Store, Office and Apartment—W. F. Pagels, archt., 5111 Winthrop Ave., Chicago, receiving bids 3 story, fireproof, Madison and Wisconsin Sts., here. $150,000. Owner's name withheld.

Ill., Urbana—University—Feb. 4, by University of Illinois, at office J. M. White, superv. archt., 256 Administration Bldg., general construction 4 buildings, here; adv. E. N.-R. Dec. 13. Noted Oct. 11.

Kan., Topeka—Hospital—Jan. 2, by J. M. Kirkpatrick, pres., Security Benefit Assn., 701 Kansas Ave., 3 story, 40 x 110 ft., rein.-con., brick and stone, $200,000. Smith, Garden & Martin, 1945 Michigan Ave., Chicago. Contracts for foundation and basement let previously. Noted Aug. 23.

Mo., Columbia—Memorial Hall Tower—Jan. 3, by E. E. Brown, business mgr. Missouri University, 43 x 376 ft. rein.-con., brick and stone tower, 140 ft. high, on campus. $200,000. Jamieson & Spearl, Arcade Bldg., St. Louis, archts.

Mo., St. Louis—University—Jamieson & Spearl, archts., Arcade Bldg., taking bids and open same about Dec. 21, 3 story and basement, 54 x 188 ft., granite, stone and rein.-con. geology building, on campus, for Washington University, Skinker Blvd. $250,000.

Colo., Denver—High School—Jan. 9. by Bd. Educ., c/o W. A. E. Stutt, secy., 3 story, rein.-con., steel, brick and stone, between Franklin, Humboldt, 32nd and 33rd Aves. $1,000,000. W. N. Bowman, Central Savings Bank Bldg., archt.

Calif., Livingston—School—Trustees of Merced Union High School Dist. taking bids 1 story, rein.-con. school with auditorium, here. $200,000. W. H. Weeks, 369 Pine St. San Francisco, archt.

BIDS RECEIVED

Conn., Hartford—High School—Bd. Contract & Supply, 3 story, brick and steel, plain foundation, Maple Ave., bids on (a) job complete (b) eliminating assembly hall, music room, 2 recitation rooms, and basement room (c) omitting shop, from G. Cudemo and Southern New England Contg. Co., 703 Main St., (a) $1,429,000 (b) $1,159,000; G. Cudemo, (c) $1,379,000. Noted Nov. 22.

N. Y., Brooklyn—High School—Bd. Educ., 500 Park Ave., New York, Dec. 10, James Madison High School, brick, steel and stone, plain foundation, Bedford Ave. from Ave. P. to Quentin Rd., here, from T. A. Clarke Co., 122 Livingston St., (a) $2,043,000; Turner Constr. Co., 242 Madison Ave., New York, (b) $2,045,000. Noted Nov. 22.

N. Y., New York—School—W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, Dec. 10, addition to P. S. 36, Black Rock and Castle Hill Aves., Bronx Boro, for Bd. Educ., 500 Park Ave., from G. Colon & Co., 81 East 125th St., $347,000. Noted Dec. 6.

N. Y., New York—School—Bd. Educ., 500 Park Ave., Dec. 10, P. S. 71, Roberts and Jarvis Aves., from G. Colon & Co., 81 East 125th St., $772,000. Noted Nov. 22.

N. Y., Richmond Hill (branch of Jamaica) —School—Bd. Educ., 500 Park Ave., New York City, Dec. 10, P. S. 121, 109th Ave. between 126th and 127th Sts., here, from Oscawana Building Co., 110 East 42nd St., New York City, $785,700. Noted Nov. 22.

O., Lakewood (Cleveland P. O.)—High School—Bd. Educ., Nov. 24, Harding Junior High School, 2 story and basement, 89 x 259 ft., brick, steel and concrete, Hilliard Rd., from F. H. Vogel, Ridge Rd., Brooklyn, Cleveland, $361,000. Noted Nov. 8.

Mo., St. Louis—High School—Bd. Educ., 911 Locust St., Dec. 5, general contract William Beaumont High School, 3 story, 307 x 375 ft., rein.-con., brick, steel, stone and terra cotta, Natural Bridge Rd., from E. C. Gerhard Building Co., Century Bldg., $1,240,000; plumbing, sewering and gas fitting, from H. D. M. Doerner, 2701 South Bway., $93,315; heating and ventilating, from Sodeman Heating & Power Co., 23rd and Morgan Sts., $156,447. Noted Nov. 15.

Calif., Hermosa Beach—Club—Surf and Sand Club, 1402 Strand, 6 story, 85 x 150 ft., rein.-con., from J. A. Wolvin, Braly Bldg., Pasadena, $339,450. Noted Dec. 6.

CONTRACTS AWARDED

N. H., Nashua—School—School Com., 2 story and basement, 150 x 200 ft., brick and limestone, plain foundation, to Cunningham & Birchwood, Lynn, $225,000. Noted Nov. 1.

N. Y., Brooklyn — Apartment — Lincoln Constr. Co., Inc., c/o Shampan & Shampan, archts. and engrs., 188 Montague St., will build 6 story, 110 x 192 ft., brick, steel and stone, plain foundation, Eastern Parkway, by day labor. $900,000.

N. Y., Brooklyn — Apartment — Siris & Hearn, c/o Shampan & Shampan, archts. and engrs., 188 Montague St., will build 6 story, brick, steel and stone, plain foundation, Eastern Parkway, by day labor. $800,000.

N. Y., New York—Apartment—Jarvis & Brill, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 6 story, brick, steel and stone, plain foundation, Longfellow Ave., by day labor. $250,000.

N. Y., New York—Apartment—B. London, c/o Gronenberg & Leuchtag, archts. and engrs., 450 4th Ave., will build three 5 story, brick, steel and stone, plain foundations, on plot 216 x 239 x 243 ft., Fort George Ave., by day labor. $900,000.

N. Y., New York—Apartments—M. Raymond, c/o Margon & Glaser, archts. and engrs., 2804 3rd Ave., will build two 5 story, brick, steel and stone, plain foundations, Montgomery Ave., by day labor. $500,000 each.

Pa., Phila.—School—Bd. Educ., 19th and Chestnut Sts., 3 story and basement, 147 x 171 ft., rein.-con., steel, limestone and granite, plain foundation Girard and Merion Sts., general contract to M. Melody & Sons, 1322 Race St., $449,000, heating to Thompson Bros., 520 Buttonwood St., $50,700.

Pa., Swissvale (Pittsburgh P. O.) — Church—A. S. Link and associates, archts., North Craig St., Pittsburgh, 1 story and part basement, 78 x 161 ft., steel and stone, here, to H. Busse Co., West End Savings Bldg., Pittsburgh, $225,000, for St. Anselms Congregation, Swissvale. Noted Nov. 8.

Del., Newark—School—Bd. Educ. general contract 3 story and basement, 118 x 170 ft., to General Northeastern Constr. Co., Lexington Bldg., Baltimore, Md., $181,000; plumbing and heating, to T. T. Welden, 916 Orange St., Wilmington, $65,160. Noted Nov. 8.

W. Va., Maggie—Hospital—State Bd. Control, Charleston, 3 story and basement, 45 x 201 ft., concrete and brick, to Forman & Putnam Co., Marietta, O., $187,165. Noted Oct. 4.

Fla., West Palm Beach—Club—Club de Montmartre, Inc., 3 story, 8,000 sq.ft. floor space, rein.-con., concrete pile foundation, Lake Trail, to J. S. Wilson, Palm Beach, $150,000.

Ala., Tuscaloosa—School—Bd. Educ., 2 story, 100 x 190 ft., brick and stone, to A. Laycock & Sons, Tuscaloosa, $250 000.

Tenn., Memphis—Store—B. Lowenstein Bros. Inc., Main and Court Sts., 9 story and basement, rein.-con. and brick store building, elevators, bridges and tunnels, across alley, 17 South Main St. to Gauger-Korsmo Constr. Co., 301 Endicott Bldg., St. Paul, Minn. $718,000. Noted Oct. 11.

O., Cincinnati—School—Bd. Educ., 511 West Court St., carpentry work for 2 story, 64 x 120 ft., rein.-con., brick and terra cotta, plain foundation, Tremont St., to D. Meinken & Son, 2126 Western Ave., $85,445; cut stone work to David Hummel Building Co., 2629 Spring Grove, C. W. $53,998. Noted Nov. 29.

O., Cleveland—Apartment—Abrams Bros., 203 Ulmer Bldg., 3 story and basement, 43 x 175 ft. brick and timber, 9701 Lamont Ave., to Figilis & Tepper, 3285 East 123rd St. Archts. est. $160,000. Noted Nov. 29.

O., Cleveland—Apartment—Rosen Bros., 608 St. Clair Ave., 3 story and basement, 37 x 110 ft., brick, to B. Lessovitz, 12702 Soika Ave. Archts. est. $150,000. Noted Nov. 29.

O., Cleveland — Apartment — Spangler-Euclid Co., 10936 Grantwood Ave., 3 story and basement, 40 x 120 ft., brick, 1932 East 73rd St., to Winer & Grafchik, 3325 East 125th St. Archts. est. $150,000.

O., Cortland—School—Bd. Educ., 2 story and basement, 16 room, brick, steel and concrete, to Howell & Noble, Warren, $130,000. Noted July 26.

O., Toledo—Office, etc.—Ransom & Randolph Co., 3 story office and factory, brick, plain foundation, Jefferson and Chestnut Sts., to J. H. Berkbile & Son, Toledo, $120,000.

Ind., Indianapolis—Office—R. W. Furnas Ice Cream Co., 127 North Alabama St., 4 story and basement, 50 x 67 ft., brick and steel, North Alabama St., general contract, to J. G. Karstedt Constr. Co., Fairgrounds St.

Ind., Indianapolis—School—E. J. Hecker, trustee, 5241 West Washington St., high and grade school, brick, Warren Twp., general contract to W. R. Duncan & Son, Flora. Archts. est. $150,000. Noted Nov. 15.

Mich., Adrian—Auditorium—St. Josephs Academy, 2 story, 67 x 135 ft., rein.-con. and brck auditorium and gymnasium, plain foundation, North St., to C. E. Dibble, Adrian, $175,000.

Mich., Flint—School—Union School Dist., 2 story and basement, 67 x 210 ft. and 65 x 100 ft., rein.-con., brick and steel, plain foundation, Saginaw St., to F. C. Trier, Saginaw. Archts. est. $350,000.

Mich., Grosse Pointe (Detroit P. O.)—School—Bd. Educ., 399 St. Clair Ave., 2 story and basement, 90 x 95 ft., rein.-con., brick and steel, plain foundation, Rivard Blvd., to F. N. Cooper, 6370 Gratiot Ave., Detroit. Archts. est. $150,0000. Noted Nov. 15.

Mich., Lansing — Exchange — Michigan State Telephone Co., 220 North Capitol Ave., 3 story and basement, 66 x 124 ft., rein.-con. and brick, plain foundation, North Capitol Ave., to F. H. Davis & Co., 1860 Penobscot Bldg., Detroit, $150,000. Noted Nov. 1.

Mich., Springwells—School—Bd. Educ., 2 story and basement, rein.-con., brick and steel, plain foundation, Lois Ave. to S. Brozek, 5090 Lonyo Blvd., Detroit, $150,000.

Ill., Chicago — Store, Office and Hall — Milwaukee Ave. Building Corp., 140 South Dearborn St., 2 story, 125 x 224 ft., rein.-con., brick and steel, 2233-51 Milwaukee Ave., to McKeown Bros. Co., 112 West Adams St. Archts. est. $700,000.

Ill., Oak Park — Store and Office — S. Koenigsberg, c/o Koenigsberg & Weisfeld, archts., 155 North Clark St., Chicago, 4 story, 74 x 100 ft., rein.-con., brick and steel, Lake and Marion Sts., to Harper & Butendorff, 1028 North Blvd. Archts. est. $250,000.

Ill., Waukegan—Y. M. C. A., 203 North Genesse St., 4 story, 104 x 122 ft., brick, tile and concrete, Clay St., to Peterson & Weeks, 2 South County Ave., $207,609. Noted Nov. 29.

Minn., Minneapolis—School—Bd. Educ., foundation and 1st floor slab for 1 story and basement, 150 x 300 ft., rein.-con., brick and tile, Mississippi River Blvd., to M. A. Floyd Co., 908 Andrus Bldg., $26,875. Will take bids later for superstructure. Archts. est. $200,000. Noted Nov. 22.

Minn., South St. Paul—Church and School—St. Augustines Catholic Church, 2 story and basement, 120 x 180 ft., brick and stone, general contract to W. E. Suhring Co., 100 West Lake St., Minneapolis. Total $150,000. Noted July 26.

Minn., Virginia — High School — School Dist. 22, 2 story and basement, 58 x 113 ft. addition, rein.-con., brick and stone, general contract to F. Gorham, Virginia, $136,660. Former contract rescinded. Noted Nov. 29.

Mo., Joplin—Hospital—A. King, 20th and Jackson Sts., 3 story, rein.-con. and brick, plain foundation, to L. R. Hoffman, Woodlawn St. Archts. est. $150,000.

Mo., Sedalia—High School—Bd. Educ., general contract, 3 story and basement, 185 x 190 ft., rein.-con., brick and stone, to Dean-Hancock, Sedalia, $238,682; heating and ventilating apparatus, to G. Suter, Sedalia, $64,823. Noted Nov. 1.

Mo., St. Louis—Loft—B. Lesser, 904 North 9th St., 5 story and basement, 36 x 105 ft. rein.-con., brick and stone, Lucas Ave., to H. O. Hirsch & Co., Wainwright Bldg., Archts. est. $150,000.

Tex., Commerce — Auditorium — East Texas State Teachers College, general contract 3 story, brick, steel and concrete, to H. N. Jones, 212 Loyosa St., San Antonio, $249,979. Noted Nov. 22.

Colo., Denver—Store—Neusteter Co. 5 story and basement, 100 x 125 ft., rein.-con., steel and marble, Stout and 16th Sts., to F. Kirchoff Constr. Co., 718 Lawrence St., Denver, $500,000.

Wash., Tacoma—School—School Bd., 2 story, 260 x 360 ft. rein.-con., campus of College of Puget Sound, to O. F. Larson, California Bldg., $371,628. Noted Nov. 22.

Calif., Compton — Hotel, Store and Theatre—Ramsey & Bemis will build 2 story, 95 x 140 ft. brick and concrete, by

Buildings (Continued)

day labor. A. J. Davenport, c/o California Theatre, Compton, lessee.

Calif., Orange—Theatre and Store—G. Rickards & R. Smith, Orange, brick theatre and store building, and reconstruction of 3 story apartment and hotel adjoining theatre site, to A. T. Hesse, Hollingsworth Bldg., Los Angeles, $250,000 or more. Noted Oct. 11.

Calif., San Francisco—Apartment—G. L. Fish, 1001 Pine St., 6 story and basement, rein.-con., Pine St. near Taylor St., general contract to F. L. Hansen, 251 Kearny St., $135,000. Noted June 21.

Calif., San Francisco — Apartment — W. Props, 965 Hyde St., will build 5 story and basement, rein.-con., Sacramento and Franklin Sts., by day labor. Noted Dec. 6.

Calif., San Francisco—Office and Warehouse—See "Industrial Works."

Calif., Stockton—College—College of the Pacific, college buildings, general contract from R. W. Moller, Call Bldg., San Francisco, $526,125; power, heating and ventilating from L. Tourette-Fical Co., 907 Front St., Sacramento, $78,000; power, heating, ventilating and plumbing from Miller-Hays Co., 125 North California St., $102,500; electrical work from F. E. Newbery & Commercial Electric Co., 381 Bush St., San Francisco, $77,900. Noted Nov. 15.

B. C., Vancouver—Apartment—St. Julien Co., Bank of Hamilton Bldg., converting uncompleted 7 story, 131 x 132 ft. rein.-con., stone, tile, brick and terra cotta, Y. M. C. A. building, Georgia St., into apartment to Booker, Campbell & Whipple, 413 Granville St., $270,000.

Federal Government Work

PROPOSED WORK

Ky., Weston—Lock—U. S. Engineer, P. O. Box 72, Louisville, will probably take bids after Feb. 1, constructing 110 x 600 ft. lock for Dam 50, involving 40,000 cu.yd. concrete, near here.

Ky., Owensboro—Steel and Bolts—U. S. Engineer, P. O. Box 72, Louisville, plans to purchase 123 tons structural steel and bolts for lock at Dam 46, Ohio River, here.

Mich., River Rouge—Dredging—U. S. Engineer, Federal Bldg., Detroit, plans deepening and straightening River Rouge to provide at least 21 ft. channel to docks of Peerless Portland Cement Plant, in vicinity of West Jefferson Ave., here. E. H. Markham, dist. engr.

BIDS DESIRED

Wis., Mineral Point—Post Office and Custom House—Jan. 3, by Treas. Dept., Wash., D. C., 1 story, 46½ x 64 ft., brick, here. J. A. Wetmore, acting superv. archt.

Tex., Houston—Remodeling—Dec. 18, by Treas. Dept., Wash., D. C., remodeling first floor in Old U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Oregon—Road—Dec. 19, by C. H. Purcell, dist. engr., U. S. Bureau Pub. Rds., New Post Office Bldg., Portland, improving Bear Gulch Natl. Forest Rd., Malheur National Forest, Grant Co., 21 acres clearing, 25,000 cu.yd. rock, 20,000 cu.yd. common, and 1,500 cu.yd. structure excav., 2,560 lin.ft. culverts, etc.

Oregon—Road—Dec. 19, by C. H. Purcell, dist. engr., U. S. Bureau Pub. Rds., New Post Office Bldg., Portland, improving Scottsburg-Reedsport Natl. Forest Rd., located partly within Siuslaw National Forest, Douglas Co., 18 acres clearing, 160,000 cu.yd. excav., 126 cu.yd. Class A concrete, etc.

Calif., Livermore—Hospital—Dec. 29 (extended date) at office U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., construction complete of infirmary, administration, mess and kitchen building, recreation building, nurses' quarters, attendants' quarters, garage, storehouse, etc., mechanical equipment and outside service lines except grading and walks, at U. S. Veterans Hospital, here. F. T. Hines, dir. Noted Nov. 22.

Calif., San Francisco—Riprap—U. S. Engineer, Custom House, receiving bids 22,000 cu.yd. riprap for Richmond Dike.

BIDS RECEIVED

Pa., Phila.—Dredging—U. S. Engineer, 1505 Race St., dredging (1) 1,800 cu.yd. overlying material and (2) 141 cu.yd. ledge rock in Schuylkill River, maximum allowable overdepth overlying material 570 cu. yd., ledge rock 263 cu.yd., from Amer. Dredging Co., 510 Mariner and Merchant Bldg., (1) $1.50 (2) $100. Noted Nov. 15.

La., New Orleans—Barge and Hull—U. S. Engineer, 329 Custom House, (1) one 100 x 30 x 6 ft. 1,800 bbl. capacity steel oil barge (2) one 74 x 34 x 5 ft. steel hull derrick boat, from Dravo Contg. Co., Diamond Bldg., Pittsburgh, Pa., (1) $28,506 (185 days) (2) $17,190 (224 days); W. P. Copping Steel and Iron Wks., 401 North St., Patrick St., (1) $21,950 (120 days) (2) $20,950 (120 days). Noted Nov. 8.

Ark., Marianna — Post Office — Treas. Dept., Wash., D. C., construction U. S. Post Office, here, from A. Blair, 11 South Lawrence St., Montgomery, Ala., $42,479. Noted Nov. 8.

CONTRACTS AWARDED

Ky., Louisville—Pile Hammer—U. S. Engineer, P. O. Box 72, one 6,500 lb. steam pile hammer, to Branders Machy. and Supply Co., 325 West Main St., $1,790.

Ky., Owensboro—Lumber—U. S. Engineer, P. O. Box 72, Louisville, 30,000 ft. No. 2 common and 90,000 ft. No. 1 rough, yellow pine for Dam 46, here, to Hayden & Wescott Lumber Co., 823 Railway Exch., Chicago. Engrs. est. $5,000. Noted Nov. 29.

O., Gallipolis—Post Office—Treas. Dept., Wash., D. C., construction U. S. Post Office, here, to C. Weitz Sons Co., 713 Mulberry St., Des Moines, Ia., $50,500. Noted Dec. 6.

O., Steubenville — Post Office — Treas. Dept., Wash., D. C., 1 story, 99x100 ft., 4th and Washington Sts., here, to Garber & Cissel, Bethlehem, Pa., $160,000. Noted Oct. 25.

Unclassified

PROPOSED WORK

Subway—Erie, Pa.—Plans subway under Pennsylvania and New York Central R.R. tracks at Chestnut St. $75,000. F. G. Lynch, city engr.

Lighting System — Greenwood, Miss. — Making preliminary plans white way lighting system consisting iron street standard and underground conduits. $30,000. W. B. Hawkins, city engr.

Park Improvements—Louisville, Ky.—Bd. Park Comrs. plans improvements in Victory and Tyler Parks, etc. $32,000. G. W. Schardein, pres.

Stadium — Louisville, Ky. — Du Pont Manual Training High School having plans prepared by A. G. Tafel, Coleman Bldg., concrete stadium, Eastern Parkway. $65,000. Noted Aug. 9.

Stadium—Youngstown, O.—Rayen Alumni Athletic Assn. having tentative plans prepared stadium, 8,400 seating capacity. $125,000-$150,000. Conducting campaign to raise funds. Will mature in spring. Address E. F. Miller, professor, Rayen School. Engineer and architect not announced.

Grade Separations—Highland Park (Detroit P. O.), Mich.—Pennsylvania R.R. Co., Penobscot Bldg., Detroit, plans separating grades of Pennsylvania and Detroit Terminal tracks through city, incl. elevation of street at Oakland Ave., and elevation of tracks at Woodward and Hamilton Aves. L. C. Whitsit, city engr., and J. Reid, comr. Pub. Wks., Detroit, will prepare plans and submit same to committee of engineers, incl. engineer for railroad.

Lighting System—Urbana, Ill.—Takes bids about Feb. 7, South East Street lighting project. $60,000.

Electric Light System—Bedford, Ia.—See "Industrial Works."

Stadium, etc.—Columbia, Mo.—Missouri University having preliminary sketches made 1st unit rein.-con. memorial stadium and football field, 25,000 seating capacity (ultimately 65,000). To exceed $300,000. Jamieson & Spearl, Arcade Bldg., St. Louis, archts.

Park, etc.—Florida, Mo.—Mark Twain Memorial Assn., c/o Missouri University, Columbia, plans memorial park $115,000 and buildings $35,000, here, in honor of Mark Twain. H. A. LaRue, c/o owner, engr. H. F. Mayor, landscape, archt.

Parks, etc.—St. Louis, Mo.—Bd. Pub. Serv. and Citizens Bond Issue Supervisory Com. approved $90,000 bonds new parks and playgrounds, $150,000 bonds improving parks and playgrounds, $500,000 bonds street lights and $65,000 bonds elimination grade crossings. W. W. Horner, city engr.

Pipeline—Beaumont, Tex.—Atlantic Refining Co. had plans prepared for pipeline to tank farm and loading rack on Neches River. $100,000.

Amusement Park—Dallas, Tex.—J. C. R. Simpson, Whiteman Bldg., plans Fairyland Amusement Park, Scyene Rd. $1,000,000.

Park—Ft. Worth, Tex.—Making plans walks, drives, athletic grounds, etc. Burk Burnett Park. $50,000. D. L. Lewis, city engr.

Levee — Kaufman, Tex. — Kaufman Co. Levee Dist. voted $140,000 bonds for repairs and maintenance. W. P. Williams, co. judge. Noted Nov. 29.

Removing Obstructions, etc.—San Antonio, Tex.—Voted $400,000 bonds removing obstructions and widening San Antonio River also $600,000 bonds widening San Pedro and Alazan Rivers, river beds will be deepened and banks widened. I. Weig, city engr. Noted Nov. 15.

Hydro-Electric Power Development—Aberdeen, Wash.—City voted $2,000,000 bonds to develop 27,000 hp.

Distributing System—Carmichael, Calif.—Carmichael Pub. Utility Dist. plans electrical distributing system, to exceed $25,000. Bond election soon.

Pier Shed—Los Angeles, Calif.—City, steel transit shed on Pier No. 1, from Lynch Constr. Co., 1117 Central Bldg., Los Angeles, $64,300.

Wharves—Los Angeles, Calif.—Bd. Harbor Comrs. having plans prepared 2 wharves, 60 ft. wide, 150 ft. long, also 7 dolphins, Los Angeles Harbor. Private plans.

Power Lines, etc.—Redwood City, Calif.—Pacific Gas & Electric Co., 446 Sutter St., San Francisco, plans to reconstruct power lines and install additional transformers to supply industrial plants east of Redwood City. Private plans.

Swimming Pool — Sonora, Calif. — See "Buildings."

Underground Railroad Crossing—Stockton, Calif.—City having preliminary surveys made for crossing under railroad tracks at East Miner Ave., beginning at Aurora St. and ending at point between Union and Pilgrim Sts. To exceed $225,000. W. B. Hogan, city engr.

Electrolier System—Torrence, Calif.—City to vote on $75,000 bond issue for electrolier system.

Power Development — Carillon, Que. — Montreal Tramway Co., Craig St. W., Montreal, will probably take bids in January for 40,000 hp. development, here.

Power Development — Riviere du Loup, Que.—Montreal Tramway Co., Craig St. W., Montreal, will probably take bids in January for 20,000 hp. development, here.

Shipbuilding Yards—Three River, Que.—Canada Steamship Lines Ltd., Victoria Sq., Montreal, takes bids early in 1924 constructing shipbuilding yards at Cap de Madeline near here.

BIDS DESIRED

Test Borings—Phila., Pa.—Dec. 18, by W. S. Twining, dir. City Transit, 50 test borings for subway construction in central part of city, Contr. 7.

Ferry Boats—New Orleans, La.—Jan. 3, by Algiers Pub. Serv., 1 Canal St., 2 steel hull ferry boats, 67 x 150 ft. $225,000. Noted Nov. 29.

Culverts and Extensions—Waterloo, Ia.—Dec. 26, by Auditor Black Hawk Co., 35 box culverts and 14 culvert extensions. W. D. Johnston, Waterloo, engr.

Levee—Dallas, Tex.—Levee Dist. 9, Dallas Co., taking bids levees $55,000. McKay & Montgomery, Andrews Bldg., Dallas, engrs.

Bulkhead—Ore., Gresham—Dec. 17 by Comrs. Multnomah Co., Court House, (Portland) bulkhead on south side Powell Valley Rd., here, (1) 1 240 lin.ft. cedar piles, 16 in. butts (2) 1,240 lin.ft. Douglas fir piles, creosoted 12 lb. treatment, 16 in. butts (3) ten 1 in. x 20 ft. tie rods (4) 11,500 ft. Douglas fir, No. 1 common, 6 x 12 creosoted, 12 lb. treatment (5) 9,370 lin.ft. cedar piles, 16 in. butts (6) 9,370 lin ft. Douglas fir piles 16 in. butts, 12 lb. creosoted treatment. Bulkhead to be built of following: Items 1, 3 and 4 or alternate 2, 3 and 4, or alternate 5 or alternate 6. C. Rudeen, chn.

Amusement Pier—Alameda, Calif.—Neptune Beach Co., Webster St. and Encinal Ave., receiving bids amusement pier, 1,500 ft. long, 30 ft. wide, to rest on timber piles, Neptune Beach. Private plans.

Head Works—Wellington, New Zealand—Apr. 30 (extended date) for Arapuni power scheme, Sect. 1 headworks; adv. E. N.-R. Dec. 13.

CONTRACTS AWARDED

Special Work—New York, N. Y.—Transit Comn., 49 Lafayette St., special work (Order 23) for Lenox Ave. and 148th St. Yard, to Bethlehem Steel Corp., 25 Bway., $12,544. Noted Dec. 6.

Grain Elevator — Farmington, Conn. — Winchell Smith, Inc., 4 and 6 story, 54 x 144 ft. grain elevator, and trestle 300 ft. long, 30 ft. high, rein.-con., to Carlson & Torell Co., 50 Dwight St., New Britain. Engrs. est. $100,000. Noted May 10.

Grain Loading Jetty—Vancouver, B. C.—Harbor Comrs., 712 Pender St. W., timber pile and crib jetty 1,050 ft. long, 50 ft. wide, steel superstructure to carry four 36 in. belt conveyors, etc., to Pacific Constr. Co. Ltd., 510 Hastings St. W., $400,000.

Materials and Equipment

PROPOSED WORK

Electric Lights — Albany, N. Y. — See "Streets and Roads."

Road Machinery—Wisconsin—Following are county appropriations for road machinery during 1924. Ashland Co. $10,000, W. E. Dillon, Highbridge, comr.; Door Co. $4,000, J. M. Laurie, Sturgeon Bay, comr.; Iron Co. $3,000, W. Weber, Saxon, comr.;

Materials and Equipment (Continued)

Polk Co. sufficient to purchase 1 rock crusher, 10 patrol graders one 12 ft. grader and large tractor, C. W. Nystrom, Balsam Lake, comr.; Douglas Co. $10,000 incl. patrol graders, etc. C. Hanson, Superior, comr.; Waupaca Co. $10,000, J. Huffcut, Wapaca, comr.; Washburn Co. $8,000, incl. crusher and screening plant, J. R. Allen, Spooner, comr.; Florence Co. sufficient to purchase several conveyors, O. F. Soderberg, Florence, comr.

Road Machinery — Wisconsin — See "Streets and Roads."

Road Machinery—Wisconsin—Following are county appropriations for road machinery during 1924. Monroe Co. $7,000 incl. 19 patrol outfits, C. Millard, Sparta, comr.; Clark Co. $10, O. J. Weyhmiller, Niellsville, comr.; Lincoln Co. $8,000, H. H. Kuehling, Merrill, comr.; Sauk Co. sufficient to purchase small graders, small rock crusher and power unit, W. Halbersleben, Baraboo, comr.

Road Machinery—Wisconsin—Following are county appropriations for road machinery during 1924. Trempealeau Co. $7,000 incl. patrol road graders, etc., E. F. Rotering, Arcadia, comr.; Portage Co. $2,000 incl. small tools, graders, scrapers and wheelers, T. E. Cauley, Stevens Point comr.

Street Sweeper—Eau Claire, Wis.—City takes bids this winter street sweeping machine. O. E. Olen, city clk.

Portland Cement—Springfield, Ill.—Dept. Pub. Wks. and Buildings, Div. Highways, rejected bids 4,000,000 bbl. cement for 1924 road construction program. Letting indefinitely postponed. Noted Dec. 6.

BIDS DESIRED

Tractor—Albany, N. Y.—Bd. Supervs, Albany Co. in market for one 10 ton caterpillar type tractor, and four 5 ton tractors. J. J. McNulty, chn.

Paving Blocks—New York, N. Y.—Dec. 21, by E. W. Buckley, comr. Purchase, Municipal Bldg., granite and creosoted wood paving blocks for Dept. Plant & Structures.

Machinery — Richmond, Va. — Hackley Morrison Co., 1708 Lewis St., taking bids 24 in. belt bucket elevator 50 ft. centers; 100 steel end dump stone quarry cars, 2 yd. capacity; 2 Bucyrus drag line machines one with 125 ft. boom and other with 150 ft. boom.

Tractor—Crookston, Minn.—Dec. 20, by H. B. Welte, aud. Polk Co., one 10 ton caterpillar tractor. E. H. Harding, Crookston, engr.

Road Gravel—Marlin, Tex.—Jan. 12, Comrs. Court, Falls Co., approximately 50,000 cu.yd. road gravel, for Highway 44. P. Wehrung, Lott, engr.

Crusher — San Antonio, Tex. — H. T. Phelps, Hicks Bldg., taking bids 100 ton jaw crusher.

Clam Shell Bucket—Los Angeles, Calif.—Dec. 21, by Harbor Comn., Byrne Bldg., 1 yd. capacity clam shell bucket.

Tractors—Merced, Calif.—Merced Co. in market for 2 tractors with dump bodies for use in Supervisorial Dist. No. 4. W. E. Bedesen, co. surv.

BIDS RECEIVED

Material for Bridge Repairs, etc.—Phila., Pa.—Dept. Pub. Wks., Bureau of Highways, (1) material for repairing bridges (2) furnishing granite block (3) furnishing dryers for city asphalt plant (4a) and (4b) improving intersection of 34th St. Walnut St. and Woodland Ave., from Montgomery Iron & Steel Co., 918 West Berks St., (1a) $1,279 (1b) $5,402; J. Meehan & Son, 916 West Dakota St., (2) $3,264; Phila. Stack and Tank Wks., Inc., 50 North 23rd St., (3) $2,394; Union Paving Co., 30th and Locust Sts., (4) $7,462. Noted Nov. 29.

Pipe—Dallas, Tex.—For 20,000 ft. 6 in. tile pipe, five hundred 6 x 6 Y, two hundred Dallas Y, two hundred 6 in. ¼ bends, two hundred 6 in. ⅛ bends and 500 ft. 4 in. tile pipe, from San Antonio Sewer Pipe Wks., San Antonio, and Texarkana Pipe Wks., Texarkana, both bid. $0.21 for 6 in., $0.84 for 6 in. special, $0.15 for 4 in. and $0.60 for 4 in. specials. E. A. Kingsley, Dallas, city engr. Noted July 19.

Cement, etc.—Oroville, Calif.—Thermalito Irrigation Dist., Oroville, 2,750 bbls. cement to L. C. Bills Hardware Co., Oroville, $3.39 per bbl., 30 in. needle valve from Union Machine Co., 934 Brannan St., San Francisco, $2,000.

CONTRACTS AWARDED

Cast Iron Pipe—Kansas City, Kan.—For 8,000 ft. 16 in., 8,000 ft. 12 in., and 15,000 ft. 6 in. Class B, cast iron pipe, to Amer. Cast Iron Pipe Co., 716 Scarritt Bldg., $54.50 per ton.

Gravel, etc.—Ft. Worth, Tex.—For 7,500 cu.yd. gravel for street work, to Texas Sand & Gravel Co., Box 1594, Waco, $1.60; 7,900 gal. Texaco macadam binder, to Texas Co., Southwestern Life Bldg., Dallas, $0.06.

OFFICIAL PROPOSALS

Bids: Dec. 19.

DELAWARE RIVER BRIDGE
CONTRACTS NO. 9 AND 10

Demolition

Philadelphia, Pa.

Sealed proposals for the demolition and removal of the properties on the sites of the Philadelphia and Camden approaches of the bridge over the Delaware River connecting the City of Philadelphia, Pa., and the City of Camden, N. J., will be received by the Delaware River Bridge Joint Commission at Room 806, Widener Building, Philadelphia, Pa., until 2:30 o'clock p.m., December 19, 1923, when they will be publicly opened and read. The contracts will be awarded, or all bids rejected, within fourteen days after bids are opened. The right is reserved to reject any or all bids.

Separate bids are asked on each of five sections of the Philadelphia approach and each of four sections of the Camden approach. The work includes demolition and removal of structures, and certain other work incidental thereto.

Bids must be made upon the blank proposal forms, which, together with specifications, bond and contract form, and contract drawings, may be obtained at the office of the Joint Commission, upon deposit of $10.00, which deposit will be refunded upon receipt of bid or upon the return in good condition of the copies so taken.

Each proposal must be accompanied by a certified check for Three Thousand Dollars, drawn upon a national or state bank or trust company having an office either in Philadelphia or Camden, and payable to the Delaware River Bridge Joint Commission, and surety's consent must be shown. The bidder or bidders to whom the contract for each section is awarded will be required to given bond in the sum of fifty per cent of the amount of such contract, but not less than $25,000.

Delaware River Bridge Joint Commission.
GIFFORD PINCHOT,
Chairman.
JOSEPH K. COSTELLO,
Secretary.

Bids: Dec. 19.

Watchman's Signal System

Central Islip, N. Y.

Sealed proposals for Watchman's Signal System, at the Central Islip State Hospital, Central Islip, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 3 o'clock p.m. Wednesday, December 19th, 1923, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit consisting of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York, or money, equal to five per cent (5%) of the amount of the proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 4164. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Central Islip State Hospital, Central Islip, N. Y.; at the New York Office of the Department of Architecture, 18th Floor Fuller Building, Broadway & 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: November 21, 1923.

Bids: Dec. 28.

State Highway Work

Richmond, Va.
December 7, 1923.

Sealed bids will be received at the office of the State Hwy. Dept., 413 N. 10th St., Richmond, until 10:30 a.m., Friday, Dec. 28, 1923, for the construction of:

1. PROJ. S-146C RT 10 Radford—Three Miles East Montg'ry Co. 3 mi. 18' 8" Bit. Mac. Road. Approx. 3,000 cu.yd. Exc. 1,376 cu.yd. Borrow Exc.

2. PROJ. S-279 RT 27 Great Bridge—N. C. State Line Norfolk Co. 12.6 mi. 18' Conc. Road. Approx. 12 A Clearing, 29,860 cu.yd. Exc., 35,800 cu.yd. borrow, 1,856 lin. ft. pipe, 380 cu.yd. "A" Conc., 207 cu.yd. "B" Conc., 22,605 lbs. reinf. steel, 3,840 lin.ft. Wood Gd. Rail.

3. PROJ. S-293-C RT 23 Newport — Hoges Store Giles Co. 1.61 mi. 24-26 ft. Grading and Dr. Approx. 13,913 cu.yd. Exc., 392 lin.ft. pipe, 70 cu.yd. "A" Conc., 120 cu.yd. "B" Conc., 8,000 lbs. reinf. steel, 604 lin.ft. Wood Gd. Rail.

4. PROJ. F-295-C RT 39 Richmond — Seven Pines Henrico Co. 5.18 mi. 18' Conc. Road. Alt. bids using 4" Gravel. Subbase, 4" Bit. Conc. coarse agg. type base, 2" Sheet Aspht. Top without binder course. Approx. 2 Ac. Clearing, 10,026 cu.yd. Exc., 5,946 cu.yd. Borrow, 682 lin.ft. pipe, 27 cu. yd. "B" Conc.

5. PROJ. S-322 RT 393 Bottoms Bridge —New Kent C. H. New Kent Co. 13.0 mi. Gravel, 38 Ac. Clearing, 92,950 cu.yd. Exc., 4,368 cu.yd. Borrow, 2,576 lin.ft. pipe, 243 cu.yds. "A" conc., 191.2 cu.yd. "B" conc., 17,426 lbs. reinf. steel, 2,120 lin.ft. wood gd. rail. Right is reserved to cut off surface if gravel is not available.

Proposal guaranties to be $500 for bids less than $100,000 and $1,000 for bids over $100,000.

Plans and specifications are on file at the office of the State Hwy. Dept., Richmond, and the following Dist. Engr's Offices: Proj. S146C Salem, S279 Suffolk, F295C and S322 Richmond, S293 Salem.

Additional plans for bidders on the above projects may be obtained upon application to State Hwy. Dept., with check for $5.00 payable to H. G. Shirley, $2.50 will be returned if plans are returned in two weeks after bids are opened.

Engineers will be at the following places to show bidders over work: S146C N&W Station, Radford 11 a.m. Wed., Dec. 19, S279 Lorraine Hotel, Norfolk, 10:30 a.m. Tues., Dec. 18, S293 N&W Station, Pembroke, 10 a.m. Dec. 21, F295C & S322 Dist. Engrs. Office, Richmond, 10 a.m. Fri., Dec. 14.

State Highway Commission reserves right to reject any or all bids.

H. G. SHIRLEY,
Chairman.
C. S. MULLEN,
Acting Commissioner.

Bids: April 30, 1924.

Arapuni Power Scheme

NEW ZEALAND
SECTION 1, HEADWORKS

Wellington, New Zealand.

The time for the receipt of tenders for the above contract is hereby extended until the 30th April, 1924. (Advertised May 24 and August 16.)

Bids: April 30, 1924.

Arapuni Electric Power Scheme

SECTION 2—POWERHOUSE & PLANT

Wellington, New Zealand.

Tenders for the above close with the Secretary, Public Works Tenders Board, Wellington, New Zealand, at noon on 30th April, 1924. Specifications may be seen on application at the New York, Cleveland, Chicago and San Francisco Offices of "Engineering News-Record" and "Electrical World."